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FIGURE 517

GGCACGAGCAGGCCCTGGCCGTGGCGAAAGAGCCGGCGGAGCCGGAGACCCGCTCCCGGAGACGCCGCCTCGCGA
TCCCCGCGCGGGCGGGACCGGGCGGCCGCGCATCATGACCCTGTTTCACTTCGGGAACTGCTTCGCTCTTGCTTAC
TTCCCCTACTTCATCACCTACAAGTGACCGACCTATCCGAGTACAACGCCTTCTGGAAATGCGTCCAGGCTGGA
GTCACCTACCTCTTTGTCCAACCTCTGCAAGATGCTGTTCTTGGCCACTTTCTTTCCACCTGGGAAGGCGGCATC
TATGACTTCATTGGGGAGTTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCC
CGGAATGCCGGCAAGGGAGAGTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCC
CGCTGCATTCCCCTATGGGTCGGAGCCCGGGGCATTGAGTTTGACTGGAAGTACATCCAGATGAGCATAGACTCC
AACATCAGTCTGGGTCCATACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACACC
TTCCGGCCAGCTGTCCTCCTGCTGATGTTCTCAGAGTTTACAAGGCCTTTGTTATGGAGACGTTTGTCACCTA
TGCTCGCTGGGCAGTTGGGCAGTTTTAATGGCGGGAGTAGTGGTTAAGGGGCTGCTGGTTATCAGAAATTTGGCC
ATGTATGTTGCCGTTGTCAATGTGCACTCCTAGGCTTGGTGTCTCAGACATTGATGTACCTTTTCCCTGCCTCGC
TCCAGGTTTTAGTGAAGTAAACAGTATTTGGAAAGTT

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FIGURE 518

MTLFHFGNCFALAYFPYFITYKCTDLSEYNAFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKAS
VDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNISLGPYIVAS
AQVWMITRYDLYHTFRPAVLLLMFLRVYKAFVMETFVHLCSLGSWAVLMAGVVVKGLLVIRNLAMYVAVVNVHS

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FIGURE 519

CGTATTGCTCGGCCCGGGGAGTTTCGCCCCCTGCCCGGCTCCGCGGCGCGGAGG**ATGG**CGTGGAACGGCTGGGC
GCGCTGGTGATGTTCCCTCTACAGATGATCTATCTGGTGGTGAAAGCAGCCGTCGGACTGGTGCTGCCCGCCAAG
CTGCGGGACCTGTCGCGGGAGAACGTCTCATCACCGGCGGCGGGAGAGGCATCGGGCGCTCAGCTCGCCCGCGAG
TTCGCGGAGCGCGGCGCCAGAAAGATTGTTCTCTGGGGCCGGACTGAGAAATGCCTGAAGGAGACGACGGAGGAG
ATCCGGCAGATGGGCACTGAGTGCCATTACTTCATCTGTGATGTGGGCAACCGGGAGGAGGTGTACCAGACGGCC
AAGGCCGTCCGGGAGAAGGTGGGTGACATCACCATCCTGGTGAACAATGCCGCCGTGGTCCATGGGAAGAGCCTA
ATGGACAGTGATGATGATGCCCTCCTCAAGTCCCAACACATCAACACCCTGGGCCAGTTCTGGACCACCAAGGCC
TTCCTGCCGCGTATGCTGGAGCTGCAGAATGGCCACATCGTGTGCCTCAACTCCGTGCTGGCACTGTCTGCCATC
CCCGGTGCCATCGACTACTGCACATCCAAAGCGTCAGCCTTCGCCTTCATGGAGAGCCTGACCCTGGGGCTGCTG
GACTGTCCGGGAGTCAGCGCCACCACAGTGCTGCCCTTCCACACCAGCACCGAGATGTTCCAGGGCATGAGAGTC
AGGTTTCCCAACCTCTTTCCCCCACTGAAGCCGGAGACGGTGGCCCGGAGGACAGTGGAAGCTGTGCAGCTCAAC
CAGGCCCTCCTCCTCCTCCCATGGACAATGCATGCCCTCGTTATCTTGAAAAGCATACTTCCACAGGCTGCACTC
GAGGAGATCCACAAATTCTCAGGAACCTACACCTGCATGAACACTTTCAAAGGGCGGACA**TAG**AGACAGGATGAA
GACATGCTTGAGGAGCCACGGAGTTTGGGGGCCACAGCACCTGGGCACACACCCGAGCACCTGTCCATTGGCATG
CTTCTGCTGGGTGAGCAGGACAGCTCCTGTCCCCAGCGAAGAATCCGGCTGCCCCTGGGCCAGTCCCAGGACCTT
TGCACAGGACTGATGGGTGTAAGTACCCCCACAGGGAGGCAGGAAAACAGCCAGAAGCCACCTTGACACTTTTG
AACATTTCCAGTTCTGTAGAGTTTATTGTCAATTGCTTCTCAAGTCTAACCAGCCTCAGCAGTGTGCATAGACCA
TTTCCAGGAGGGTCTGTCCCCAGATGCTCTGCCTCCCGTTCCAAAACCCACTCATCCTCAGCTTGCACAAACTGG
TTGAACGGCAGGAATGAAAAATAAGAGAGATGGCTTTTGTGAAAAAAAAA

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FIGURE 520

MAWKRLGALVMFPLQMIYLVVKAAGLVLPALRLDLSRENVLITGGGRGIGRQLAREFAERGARKIVLWGRTEKC
LKETTEEIRQMGTECHYFICDVGNREEVYQTAKAVREKVGDITILVNNAAVVHGKSLMDSDDDALLKSQHINTLG
QFWTTKAFLPRMLELQNGHIVCLNSVLALSAIPGAIDYCTSKASAFAFMESLTLGLLDPCPGVSATTVLPPFHTSTE
MFQGMVRVFPNLFPPPLKPETVARRTVEAVQLNQALLLPWTMHALVILKSILPQAALIEIHKFSGTYTCMNTFKG
RT

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FIGURE 521A

GTGGGGTGGGGTGGGGCTGGGGGCTTGTGCGCCCTTTCAGGCTCCACCCTTTGCGGAGATTATAAAATAGTCATGAT
CCCAGCGAGACCCAGAGATGCCTGTAATGGTGAGACTTTGGATCCTTCCTGAGGACGTGGAGAAAACTTTCTGCT
GAGAAGGACATTTTGAAGGTTTTGTGGCTGAAAAAGCTGTTTCTGGAATCACCCCTAGATCTTTCTTGAAGACT
TGAATTAGATTACAGCGATGGGGACACAGAAGGTCACCCAGCTCTGATATTTGCCATCACAGTTGCTACAATCG
GCTCTTTCCAATTTGGCTACAACACTGGGGTCATCAATGCTCCTGAGAAGATCATAAAGGAATTTATCAATAAAA
CTTTGACGGACAAGGGAAATGCCCCACCCTCTGAGGTGCTGCTCACGTCTCTCTGGTCCTTGTCTGTGGCCATAT
TTTCCGTCGGGGGTATGATCGGCTCCTTTTCCGTCGGACTCTTCGTCAACCGCTTTGGCAGGCGCAATTCATGC
TGATTGTCAACCTGTTGGCTGTCACTGGTGGCTGCTTTATGGGACTGTGTAAAGTAGCTAAGTCGGTTGAAATGC
TGATCCTGGGTCGCTTGGTTATTGGCCTCTTCTGCGGACTCTGCACAGGTTTTGTGCCCATGTACATTGGAGAGA
TCTCGCTACTGCCCTGCGGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATCGTTGTTGGAATTTCTGGTGGCCC
AGATCTTTGGTCTGGAATTCATCCTTGGGTCTGAAGAGCTATGGCCGCTGCTACTGGGTTTTACCATCCTTCCTG
CTATCTTACAAAGTGCAGCCCTTCCATTTTGCCTGAAAGTCCCAGATTTTTGCTCATTAACAGAAAAGAAGAGG
AGAATGCTAAGCAGATCCTCCAGCGGTTGTGGGGCACCCAGGATGTATCCCAAGACATCCAGGAGATGAAAGATG
AGAGTGCAAGGATGTCAACAAGAAAAGCAAGTCACCGTGCTAGAGCTCTTTAGAGTGTCCAGCTACCGACAGCCCA
TCATCATTTCCATTGTGCTCCAGCTCTCTCAGCAGCTCTCTGGGATCAATGCTGTGTTCTATTACTCAACAGGAA
TCTTCAAGGATGCAGGTGTTCAAGAGCCCATCTATGCCACCATCGGCGCGGGTGTGGTTAATACTATCTTCACTG
TAGTTTCTCTATTTCTGGTGGAAAGGGCAGGAAGAAGGACTCTGCATATGATAGGCCTTGGAGGGATGGCTTTTT
GTTCCACGCTCATGACTGTTTCTTTGTTATTAAAGGATAACTATAATGGGATGAGCTTTGTCTGTATTGGGGCTA
TCTTGGTCTTTGTAGCCTTCTTTGAAATTGGACCAGGCCCATTCCTGGTTTATTGTGGCCGAACCTCTTCAGCC
AGGGCCCCCGCCAGCTGCGATGGCAGTGGCCGGCTGCTCCAACCTGGACCTCCAACCTTCTAGTCGGATTGCTCT
TCCCCCTCCGCTGCTCACTATTTAGGAGCCTACGTTTTTATTATCTTCACGGCTTCTCATTACCTTCTTGGCTT
TTACCTTCTTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGAGGATATCACACGGGCCTTTGAAGGGCAGGCAC
ACGGTGCAGATAGATCTGGAAGGACGGCGTCATGGAGATGAACAGCATCGAGCCTGCTAAGGAGACCACCACCA
ATGTCATAAGTCTGCTCCTTCCACCTCCCTCCCGGCATGGGAAAGCCACCTCTCCCTCAACAAGGGAGAGACCT
CATCAGGATGAACCCAGGACGCTTCTGAATGCTGCTACTTAATTCCTTTCTCATCCACGCACTCCATGAGCACC
CCAAGGCTGCGGTTTTGTGGATCTTCAATGGCTTTTTTAAATTTTATTTCTGGACATCCTCTTCTGCTTAGGAGA
GACCGAGTGAACCTACCTTCATTTCAAGGAGGGATTGGCCGCTTGGCACATGACAACCTTTGCCAGCTTTTCCCTCCC
TTGGGTTCTGATATTGCCGCACTAGGGGATATAGGAGAGGAAAAGTAAGGTGCAGTTCCCCCAACCTCAGACTTA
CCAGGAAGCAGATACATATGAGTGTGGAAGCCGGAGGGTGTATGTAAGAGCACCTTCTCACTTCCATACAGC
TCTACGTGGCAAATTAACCTTGAGTTTTATTTATTTATCCTCTGGTTTAATTACATAATTTTTTTTTTTTACTT
TAAGTTTCAGGATACATGTGCCGAATGTGCAGGTTGTACATAGGTATATATATGCCATGATGGAAATATTTAT
TTTTTTAAGCGTAATTTTGCCAAATAATAAAAACAGAAGGAAATTGAGATTAGAGGGAGGTGTTTAAAGAGAGGT
TATAGAGTAGAAGATTTGATGCTGGAGAGGTTAAGGTGCAATAAGAATTTAGGGAGAAATGTTGTTCAATTATGG
AGGGTAAATGATGTGGTGCCTGAGGTCTGTACGTTACCTCTTAACAATTTCTGTCTTCAGATGGAAACTCTTTA
ACTTCTCGTAAAAGTCATATACCTATATAATAAAGCTACTGATTTCTTGGAGCTTTTTTCTTTAAGATAATAGT
TTACATGTAGTAGTACTTGAAATCTAGGATTATTAATAATATGGGCATTGTAGTTAATGATGGTTGATGGGTTT
TAATTTTGGATGGAGTCCAGGGAAGAGAAAGTGATTTCTAGAAAGCCTGTTCCCTCACTGGATGAAATAACTCC
TTCTTGTAGTAGTCTCATTACTTTTGAAGTAATCCCGCCACCTATCTCGTGGGAGAGCCATCCAAATAAGAAACC
TAAAATAATTTGGTTCTTGGTAGAGATTCATTATTTTCCACTTTGTTCTTTAGGAGATTTTAGGTGTTGATTTTC
TGTTGTATTTTAACTCATACCTTTAAAGGAATCCCCAAAGAATGTTTATAGCAAACCTTGAATTTGTAACTCA
GCTCTGGGAGAGGATTTTTTCTGAGCGATTATTATCTAAAGTGTGTTGTTGCTTTAGGCTCACGGCACGCTTGC
GTATGTCTGTTACCATGTCACTGTGGTCTATGCCGAATGCCCTCAGGGGACTTGAATCTTTCCAATAAACCAGG
TTTAGACAGTATGAGTCAATGTGCAGTGTAGCCACACTTGAGAGGATGAATGTATGTGCACTGTCACTTTGCTC
TGGGTGGAAGTACGTTATTGTTGACTTATTTTCTCTGTGTTGTTTCTACAGCCCTTTTTTCATATGTTGCTCAG
TCTCCCTTTCCCTTCTTGGTGTCTACACATCTCAGACCCCTTAGCCAAACCCTTGTCTAGTGACAGTATTTTGGTT
CTTAGTTCTCACTGTTCCCTCTGCTCCTGGAGCCTTTGAATAAAAATGCACGTAGCTGAGGCCGGATGCGGTGGC
TCACGCCTGTAATCCAGCACTTTGGGAGGCCTAGGCGGGCGGTGAGGGGTCGAGACCAGTCTGGCCAACATCG
TGAAACCTGTCTCTACTAAAATGCAAAAATTAGCCGGGCGTGGTGGCGGGCGCTGTAATCCAGCTACTTGG

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FIGURE 521B

GAAGCTGAGGCGGGAGAATCATGTGAACCCGGGACGCAGGGGTTGCAGTGAGCGGAGATCGCATCATTGCACTCT
AGCCTGGGCCACAGGGCGAGACTCCGTCTCAAAAAAAAAAAAAATGCACATAGCTATCGAGTGTGCTTTAGCTTGA
AAAGGTGACCTTGCAACTTCATGTCAACTTTCTGGCTCCTCAAACAGTAGGTTGGCAGTAAGGCAGGGTCCCATT
TCTCACTGAGAAGATTGTGAATATTTCCATATGGATTTTCTATTGTTACTCTGGTTCTTTGTTTTAAATAAAAA
TTCTGAATGTACACG

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FIGURE 522

MGTQKVTPALIFAITVATIGSFQFGYNTGVINAPEKIIKEFINKTLTDKGNAPPSEVLLTSLWSLSVAIFSVGGM
IGSFVGLFVNRFGRNSMLIVNLLAVTGGCFMGLCKVAKSVEMILIGRLVIGLFCGLCTGFVPMYIGEISPTAL
RGAFTLNQLGIVVGILVAQIFGLEFILGSEELWPLLLGFTILPAILQSAALPFCPESPRFLLINRKEEENAKQI
LQRLWGTQDVSQDIQEMKDESARMSQEKQVTVLELFRVSSYRQPIIISIVLQLSQQLSGINAVFYYSTGIFKDAG
VQEPIYATIGAGVVNTIFTVVSFLFLVERAGRRTLHMIGLGGMAFCSTLMTVSLLLKDNYNMGMSFVCIGAILVFVA
FFEIGPGPIPWFIWAELFSQGPRPAAMAVAGCSNWTSNFLVGLLFPSSAAHYLGAYVFIIFTGFLITFLAFTFFKV
PETRGRITFEDITRAFEGQAHGADRSGKDGVMEMNSIEPAKETTTNV

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FIGURE 523

CGGCGCCGGGGACCGCTGCCACCCCGCCTAGCGCAGCGCCCCGTCTTCCGCAGCCCAACCGCCTCTTCCCGCCC
CGCCCCATCCCGCCCACGGGCTCCAGTGGGCGGGACCAGAGGAGTCCCGCGTTTCGGGGAGTATGTCAAGGCCGTG
ACCCGTGTATTATTGTCCGAGTGGCCGGAACGGGAGCCAACATGGCAGCGGGGTTTCGGGCGATGCTGCAGGGTCC
TGAGAAGTATTTCTCGTTTTTCATTGGAGATCACAGCATACAAAAGCCAATCGACAACGTGAACCAGGATTAGGAT
TTAGTTTTGAGTTCACCGAACAGCAGAAAGAATTTCAAGCTACTGCTCGTAAATTTGCCAGAGAGGAAATCATCC
CAGTGGCTGCAGAATATGATAAACTGGTGAATATCCAGTCCCCCTAATTAGAAGAGCCTGGGAACCTGGTTTAA
TGAACACACACATTCCAGAGAACTGTGGAGGTCTTGGACTTGGAACTTTTGATGCTTGTTTAATTAGTGAAGAAT
TGGCTTATGGATGTACAGGGGTTTCAGACTGCTATTGAAGGAAATCTTTGGGGCAAATGCCTATTATTATTGCTG
GAAATGATCAACAAAAGAAGAAGTATTTGGGGAGAATGACTGAGGAGCCATTGATGTGTGCTTATTGTGTAACAG
AACCTGGAGCAGGCTCTGATGTAGCTGGTATAAAGACCAAAGCAGAAAAGAAAGGAGATGAGTATATTATTAATG
GTCAGAAGATGTGGATAACCAACGGAGGAAAAGCTAATTGGTATTTTTTATTGGCACGTTCTGATCCAGATCCTA
AAGCTCCTGCTAATAAAGCCTTTACTGGATTCAATTGTGGAAGCAGATACCCAGGAATTCAGATTGGGAGAAAAGG
AATTAAACATGGGCCAGCGATGTTTCAGATACTAGAGGAATTGTCTTCGAAGATGTGAAAGTGCCTAAAGAAAATG
TTTTAATTGGTGACGGAGCTGGTTTTCAAAGTTGCAATGGGAGCTTTTGATAAAACCAGACCTGTAGTAGCTGCTG
GTGCTGTTGGATTAGCACAAAGAGCTTTGGATGAAGCTACCAAGTATGCCCTGGAAAGGAAAACCTTTCGGAAAGC
TACTTGTAGAGCACCAGCAATATCATTTATGCTGGCTGAAATGGCAATGAAAGTTGAACTAGCTAGAATGAGTT
ACCAGAGAGCAGCTTGGGAGGTTGATTCTGGTCGTCGAAATACCTATTATGCTTCTATTGCAAAGGCATTTGCTG
GAGATATTGCAAATCAGTTAGCTACTGATGCTGTGCAGATACTTGGAGGCAATGGATTTAATACAGAATATCCTG
TAGAAAAAATAATGAGGGATGCCAAAATCTATCAGATTTATGAAGGTACTTCACAAATTCAAAGACTTATTGTAG
CCCGTGAACACATTGACAAGTACAAAAATTAAAAAAATTAAGTGTAGAAATATTGAATAACTAGAACACAAGCCAC
TGTTTCAGCTCCAGAAAAAAGAAAGGGCTTTAACGTTTTTTCCAGTGAAAACAAATCCTCTTATATTAAATCTAA
GCAACTGCTTATTATAGTAGTTTATACTTTTGCTTAACTCTGTTATGTCTCTTAAGCAGGTTTGGTTTTTTATTAA
AATGATGTGTTTTCTTTAGTACCCTTTACTTGAATTACATTAACCTAGAAAACCTACATAGGTTATTTTGATCTC
TTAAGATTAAATGTAGCAGAAATTTCTTGAATTTTATTTTTGTAAATGACAGAAAAGTGGGCTTAGAAAGTATTCA
AGATGTTACAAAATTTACATTTAGAAAATATTGTAGTATTTGAATACTGTCAACTTGACAGTAACCTTTGTAGACT
TAATGGTATTATTAAAGTTCTTTTTATTGCAGTTTGGAAAGCATTGTGAAACTTTCTGTTTGGCACAGAAACAG
TCAAAATTTTGACATTCATATTCTCCTATTTTACAGCTACAAGAATTTCTTGAAAATCTTATTTAATTCTGAGC
CCATATTTCACTTACCTTATTTAAAATAAATCAATAAAGCTTGCCTTAAATTATTTTTATATGACTGTTGGTCTC
TAGGTAGCCTTTGGTCTATTGTACACAATCTCATTTTCATATGTTTGCATTTTGGCAAAGAACTTAATAAAATTTG
TCAGTGCTTATTATCAT

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FIGURE 524

MAAGFGRCCRVLRISRFHWSQHTKANRQREPGLGFSFEFTEQQKEFQATARKFAREEIIPVAAEYDKTGEYPV
PLIRRAWELGLMNTHIPENCGGLGLGTFDACLI SEELAYGCTGVQTAIEGNSLGQMPIIIAGNDQQKKKYLGRMT
EEPLMCAYCVTEPGAGSDVAGIKTKAEKKGDEYIINGQKMWITNGGKANWYFLLARSDPDPKAPANKAFTGFIVE
ADTPGIQIGRKELNMGQRCS DTRGIVFEDVKVPKENVLIGDGAGFKVAMGAFDKTRPVVAAGAVGLAQRALDEAT
KYALERKTFGKLLVEHQAI SFMLAEMAMKVELARMSYQRAAWEVDSGRRNTYYASIAKAFAGDIANQLATDAVQI
LGGNGFNTEYPVEKLMRDAKIYQIYEGTSQIQRLIVAREHIDKYKN

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FIGURE 525A

CCAGGGTGATGCTGAAGATGATGACCTTCTTCCAAGGCCTCTAGAGCCATCAGCCTGTGCCAGGCACCCTCGACT
TGCCTAGAGGCCCCCAAAAGTTGCAGTCCACATCAGAGGCAGAGTCAGAGGCCTCCATGTCGGAGGCCCTCCTCTG
AGGACCTGGTGCCACCCCTGGAGGCTGGGGCAGCCCCATATAGGGAGGAGGAAGAGGCGGCAGGAAGAAGAAGG
AGAAGAAGAAGAAGTCCAAAGGCCTGGCCAATGTGTTCTGCGTCTTCACCAAAGGGAAGAAGAAGAAGGGTCAGC
CCAGCTCAGCGGAGCCCCGAGGACGCAGCCGGGTCCAGGCAGGGGGCTGGATGGCCCCGCCCCCACAGTGGAGGAGC
TGAAGGCGGCGCTGGAGCGCGGGCAGCTGGAGGCGGCGCGGCCGCTGCTGGCGCTGGAGCGGGAGCTGGCGGCGG
CGGCGGCGGCGGGCGGTGTGAGCGAGGAGGAGCTGGTGCGGCGCCAGAGCAAGGTGGAGGCGCTGTACGAGCTGC
TGCGCGACCAGGTGCTGGGCGTGCTGCGGCGGCCGCTGGAGGCGCCGCCGAGCGGCTGCGCCAGGCGCTGGCCG
TGGTGGCGGAGCAGGAGCGGAGGACCGCCAGGCGGCGGCGGGCGGGGACCTCGGGGCTGGCGGCCACGC
GCCCCGCGGCGCTGGCTGCAGCTGTGGCGGCGCGGCTGGCGGAGGCGGCCGAGGAGCGCATGGGCCAGCGGCCG
CCGCGGGCGCCGAGGTCCCCGAGAGCGTCTTTCTGCACTTGGGCGCACCATGAAGGAGGACCTGGAGGCCGTGG
TGGAGCGGCTGAAGCCGCTGTTCGCCGCGAGTTCGGCGCTCGTGGCGGCTACGCCGAGAGCTACCACCAGCACT
TCGCGGCCACCTGGCCGCCGTGGCGCAGTTCGAGCTGTGCGAGCGGACACCTACATGCTGCTGCTCTGGGTGG
AGAACCTCTACCCCAATGACATCATCAACAGCCCCAAGCTGGTGGGTGAGCTGCAGGGTATGGGGCTCGGGAGCC
TCCTGCCCCCAGGCAGATCCGACTGCTGGAGGCCACATTCTGTCCAGTGAGGCGGCCAATGTGAGGGAGTTGA
TGGACCGAGCTCTGGAGCTAGAGGCACGGCGCTGGGCTGAGGATGTGCCTCCCCAGAGGCTGGACGGCCACTGCC
ACAGCGAGCTGGCCATCGACATCATCCAGATCACCTCCCAGGCCAGGCCAAGGCCGAGAGCATCACGCTGGACT
TGGGCTCACAGATAAAGCGGGTGCTGCTGGTGGAGCTGCCTGCGTTCTGAGGAGCTACCAGCGCGCCTTTAATG
AATTTCTGGAGAGAGGCAAGCAGCTGACGAATTACAGGGCCAATGTTATTGCCAACATCAACAACCTGCCTGTCT
TCCGGATGTCCATGGAGCAGAATTGGCAGGTACCCAGGACACCCTGAGCCTCCTGCTGGGCCCCCTGGGTGAGC
TCAAGAGCCACGGCTTTGACACCCTGCTCCAGAACCTGCATGAGGACCTGAAGCCACTGTTCAAGAGGTTACGC
ACACCCGCTGGGCGGCCCCCTGTGGAGACCCTGGAAAAATCATCGCCACTGTAGACACGAGGCTGCCTGAGTTCT
CAGAGCTGCAGGGCTGTTTTCCGGGAGGAGCTCATGGAGGCCTTGACCTGCACCTGGTGAAGGAGTACATCATCC
AACTCAGCAAGGGGCGCCTGGTCCTCAAGACGGCCGAGCAGCAGCAGCAGCTGGCTGGGTACATCCTGGCCAATG
CTGACACCATCCAGCACTTCTGCACCCAGCACGGCTCCCCGGCGACCTGGCTGCAGCCTGCTCTCCCTACGCTGG
CCGAGATCATTGCGCTGCAGGACCCAGTGCCATCAAGATTGAGGTGGCCACTTATGCCACCTGCTACCTGACT
TCAGCAAAGGCCACCTGAGCGCTATCCTGGCCATCAAGGGGAACCTATCCAACAGTGAGGTCAAGCGCATCCGGA
GCATCTTGAGCGTCAGCATGGGGGCGCAGGAGCCCTCCCGGCCCTATTTTCCCTTATAAAGGTTGGTTAGCTTT
TCCTGTGGCCTGACCTGCCTGTGAGTGCCAGCAAGCCTTGGGCACACCCGCTGGGAGCTGTTAAGAGCAGCGC
TGGTTCTCGGTTCCCTCCCGGCTCCTGTGCTCTGATGCTACTTCTGCCTAGCCCTGGCGGAGGTGCAGGCCCTG
TCAGCTGGAACCTGGACAGACCTTGGTTTGTTTACATGTCCGATGGGGGCGAGGAGCTCCCATCCTGGGCAGCCAAC
CAGGCAACACCAAGGACTCTTTGTAAACGATAGCTGATCGTGTGCACGCAAGGAAAGAACAGGAGGGAGAGTGC
AGCCAGGCTCAGGGATCCCGGACACCTCTGTCCAGAGCCCCTCCACAGTCGGCCTCATGACTGTCTCTCTCGTG
GGTGGGGCCGAGGGCCCTCTTCAGCTCTCTGGAGACAGGGGGCCGAGCCTCACCCATCTGCCCTCTGCAGCCCAGG
GCCGCCGTGAGCGGGATTAGCAATGGTGGAAATGGAAGACAGAACTGGAAGAGAAAGAAGGAAAAGATGAGCTCT
CGTCTGGCAGGGGCTTTTAGGGTCTGTGGCGAGCTGTGAGCACCGCCAGCGTTAGACGTACATCCAGGTGGCC
CCACGGCCCCCTACAGGCTGGCCCTGCAATGGGGCCCTGAGCCCTCCCTCTTCATCCCCCAAGGCCTCAACTAGAG
GGTGGTCCCCCGAGGGCTTGGTGTCTACTACCGAAGGGCCCCAAGACCTCCTGGGTCTCTCAGGCTCCCCCTTCC
CCAAGGCAGGGACAGGCCCTGGGGGTGCCACCGTGGGCCCTGCCACCCAGAAGTCTGGCTGAGGTCTGGGCAGGG
GCAGGGCAAGCTTGACCTCTCACTGTTGACCCTTTGGCCTCTGTATTTGTTTCCTATTGCCGTGACAGGTTTCCA
CAAACCTTCGTGGATCAAAACGAGGTCTTCCAGTTCTGCGGGTCAGAAGGCTGACCTGGGGCTCAAATCTGGGTGT
CGGCAGTCTGCACTCCTTCTGGAGGCTCTAGGGGAGAATTCATTTCTGGCCTTTTTCATTTTTAGAGGCTGACCG
TAATTTCTGACTTCAGGCTCCTCCATCTTCAGAGCCAGCTGTGGGTAGTTGAATCTTTTTCCCGTCACCTCATTG
AGGCCTCCCCCTCTCCTGCCTCCCTCCACCACTTTTTTTTTTTTTTTTTTGGAGACAGGGTCTTGCTGTGTTGCCCA
GGCTGGAGTGCACTGGCCTGGTCATGGCATCAAGGCTCACTGCAGCCTGGACCTCCTGGTTCAAGTGATCCTCTT
GTCTCAGTCCCCCTGAGACAATCCCCACGCCCAGCTACATATTTTTGTGGATACAGGGTCTCATTCTGTTGCCTA
GGCTTGTCTGGAACCTCTGGGCTCAAGGGATCTTGTAGCCTTAGCCTCCTAAAGTGCTGGGATTATAGGCATGAG
TCACTCGTACCCGGCCTGCTCTACCGCTTTTAAGGACGCTTATGATCACATTGCGCCTACCCAGAGAACCCAGGT

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FIGURE 525B

CGTCTTTCCTATTTTCAGGTCAGCTGATTAGCCACCTTAGTTCCATCTGCAACTTTAGTTCCCACTGGCTGTGTAA
CCTAACATAGTCACAGGCTCTGGGGACTGTACGTGGACATCTTTGGGAGGCCGTTATTCTGCCCACCGCACCCCT
CCGTTTCATCCCCTGCCCTGCCGGGCACCTCGCTCTACCCCAGGAAAAATGTGAGCTCGTTTTCTGCTCGGCATGT
GCTCCCCCTAAGGCTCTGCTCCTCCCTGGGCCTGAAAGTTCCCTTCTCAGCCTGAGAGGGGGCCCTTCGATCTCAG
GCATGACTCAGCCCGGCTGATGCCTCTGCAGTGCTGAGTCAGGATTTGGGGCCGGCTCTCTTGGGTCTGTCCCCCT
TTTCCCAGGTACTGCCTTACAAAGCTGTGGCCAGGAAGTGGCCGGTATAAAGGATGCCCAAGGTCTTTGTACGTG
TGTAGGAGTTAGCGTGTGTTGATATTGTTAATATAATAATAATTATTTTTTTAGAGTACTGCTTTTGTATGTATGTT
GAACAGGATCCAGGTTTTTATAGCTTGATATAAAACAGAATTCAAAAGTGAAAAA

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FIGURE 526

MSEASSEDLVPPLEAGAAPYREEEEAACKKKKEKKKSKGLANVFCVFTKGKKKKGQPSSAEPEDAAGSRQGLDGP
PPTVEELKAALERGQLEAARPLLALERELAAAAAAGGVSEELVRRQSKVEALYELLRDQVLGVLRRPLEAPPER
LRQALAVVAEQEREDRQAAAAGPGTSGLAATRPRRWLQLWRRGVAEAAEERMGQRPAAGAEVPESVFLHLGRMTK
EDLEAVVERLKPLFPAEFGVVAAYAESYHQHFAAHLAAVAQFELCERDTYMLLLWVENLYPNDI INSPKLVGELQ
GMGLGSLLPQRIRLLEATFLSSEAANVRELMdraLELEARRWAEDVPPQRLDGHCHSELAIDI IQITSQAQAKA
ESITLDLGSQIKRVLLVELPAFLRSYQRAFNEFLERKQLTNYRANVIANINNCLSFRRMSMEQNWQVPQDTLSLL
LGPLGELKSHGFDTLQNLHEDLKPLFKRFTHTRWAAPVETLENI IATVDTRLPEFSELQGCFFREELMEALHLHL
VKEYIIQLSKGRLVLKTAEQQQQLAGYILANADTIQHFCTQHGS PATWLQPALPTLAEIIRLQDPSAIKIEVATY
ATCYPDFSKGHL SAILAIKGNLSNSEVKRIRSILDVSMGAQEPSRPLFSLIKVG

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FIGURE 527

GACTCTCCAGTCCTCAGTCACCTTGGACAAAGAAGTGTGGATCCTCAGATTCCATCTTTTCCAACTCCAAGGTGC
CATGGCAGAGAAGGTGCTGGTAACAGGTGGGGCTGGCTACATTGGCAGCCACACGGTGCTGGAGCTGCTGGAGGC
TGGCTACTTGCCGTGTGGTCATCGATAACTTCCATAATGCCCTTCCGTGGAGGGGGCTCCCTGCCTGAGAGCCTGCG
GCGGGTCCAGGAGCTGACAGGCCGCTCTGTGGAGTTTGGAGAGATGGACATTTTGGACCAGGGAGCCCTACAGCG
TCTCTTCAAAAAGTACAGCTTTATGGCGGTTCATCCACTTTGCGGGGGCTCAAGGCCGTGGGCGAGTCGGTGCAGAA
GCCTCTGGATTATTACAGAGTTAACCTGACCGGGACCATCCAGCTTCTGGAGATCATGAAGGCCCCACGGGGTGAA
GAACCTGGTGTTACAGCAGCTCAGCCACTGTGTACGGGAACCCCCAGTACCTGCCCCCTTGATGAGGCCCCACCCAC
GGGTGGTTGTACCAACCCCTTACGGCAAGTCCAAGTTCTTCATCGAGGAAATGATCCGGGACCTGTGCCAGGCAGA
CAAGACTTGGAACGTAGTGCTGCTGCGCTATTTCAACCCACAGGTGCCCATGCCTCTGGCTGCATTGGTGAGGA
TCCCCAGGGCATACCCAACAACCTCATGCCTTATGTCTCCAGGTGGCGATCGGGCGACGGGAGGCCCTGAATGT
CTTTGGCAATGACTATGACACAGAGGATGGCACAGGTGTCCGGGATTACATCCATGTCGTGGATCTGGCCAAGGG
CCACATTGCAGCCTTAAGGAAGCTGAAAGAACAGTGTGGCTGCCGGATCTACAACCTGGGCACGGGCACAGGCTA
TTCAGTGCTGCAGATGGTCCAGGCTATGGAGAAGGCCTCTGGGAAGAAGATCCCGTACAAGGTGGTGGCACGGCG
GGAAGGTGATGTGGCAGCCTGTTACGCCAACCCAGCCTGGCCCAAGAGGAGCTGGGGTGGACAGCAGCCTTAGG
GCTGGACAGGATGTGTGAGGATCTCTGGCGCTGGCAGAAGCAGAATCCTTCAGGCTTTGGCACGCAAGCC**TGAGG**
ACCTTCCCCTACCAAGGACCAGGAAAAGCAGCAGCTGCCTGCTCTCCAGCCTCTGGAGGAACTCAGGGCCCTGGA
GCTGCTGGGGCCAAGCCAAGGGCCTCCCCTACCTCAAACCCAGCTGGGCCCGCTTAGCCACCAGGCATGAGGC
CAAGGCTCCACTGACCAGGAGGCCGAGGTCTCTAACTCTTATCTTCCACAGGGTCCAAGAGTTTCATCAGGACCCC
CAAGAGTGAGTGAGGGGGCAAGGCTCTGGCACAAAACCTCCTCCTCCCAGGCACTCATTTATATTGCTCTGAAAG
AGCTTTCCAAAGTATTTAAAAATAAAAACAAGTTTTCTTACACTGG

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FIGURE 528

MAEKVLVTGGAGYIGSHTVLELLEAGYLPVVIDNFHNAFRGGGSLPESLRRVQELTGRSVEFEEMDILDQGALQR
LFKKYSFMAVIHFAGLKAVGESVQKPLDYRVNLTGTIQLLEIMKAHGVKNLVFSSSATVYGNPQYLPIDEAHPT
GGCTNPYGKSKFFIEEMIRDLCQADKTWNVVLLRYFNPTGAHASGCIGEDPQGIPNNLMPYVSQVAIGRREALNV
FGNDYDTEDGTGVRDYIHVVDLAKGHIAALRKLKEQCGCRIYNLGTGTGYSVLQMVQAMEKASGKKIPYKVVARR
EGDVAACYANPSLAQEELGWTAALGLDRMCEDLWRWQKQNPSGFGTQA

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FIGURE 529

CGAGCCCCGCCGAACCGAGGCCACCCGGAGCCGTGCCAGTCCACGCCGGCCGTGCCCGGCGGCCTTAAGAACCA
GGCAACCTCTGCCTTCTTCCCTCTTCCACTCGGAGTCGCGCTCCGCGCGCCCTCACTGCAGCCCCTGCGTCGCCG
GGACCCTCGCGCGGACCGAGCCGAATCGCTCCTGCAGCAGAGCCAACATGCCCATCACTCGGATGCGCATGAGAC
CCTGGCTAGAGATGCAGATTAATTCCAACCAAATCCCGGGGCTCATCTGGATTAATAAAGAGGAGATGATCTTCC
AGATCCCATGGAAGCATGCTGCCAAGCATGGCTGGGACATCAACAAGGATGCCTGTTTGTTCGGAGCTGGGCCA
TTCACACAGGCCGATACAAAGCAGGGGAAAAGGAGCCAGATCCCAAGACGTGGAAGGCCAACTTTCGCTGTGCCA
TGAACCTCCCTGCCAGATATCGAGGAGGTGAAAGACCAGAGCAGGAACAAGGGCAGCTCAGCTGTGCGAGTGTAAC
GGATGCTTCCACCTCTCACCAAGAACCAGAGAAAAGAAAGAAAGTGAAGTCCAGCCGAGATGCTAAGAGCAAGG
CCAAGAGGAAGTCATGTGGGGATTCCAGCCCTGATACCTTCTCTGATGGACTCAGCAGCTCCACTCTGCCTGATG
ACCACAGCAGCTACACAGTTCCAGGCTACATGCAGGACTTGGAGGTGGAGCAGGCCCTGACTCCAGCACTGTGCG
CATGTGCTGTGACGAGCACTCTCCCCGACTGGCACATCCCAAGTGAAGTTGTGCCGGACAGCACCAGTGATCTGT
ACAACTTCCAGGTGTCACCCATGCCCTCCACCTCTGAAGCTACAACAGATGAGGATGAGGAAGGGAAATTACCTG
AGGACATCATGAAGCTCTTGGAGCAGTCGGAGTGGCAGCCAACAACCGTGGATGGGAAGGGGTACCTACTCAATG
AACCTGGAGTCCAGCCCACCTCTGTCTATGGAGACTTTAGCTGTAAGGAGGAGCCAGAAATTGACAGCCCAGGGG
GGGATATTGGGCTGAGTCTACAGCGTGTCTTCACAGATCTGAAGAACATGGATGCCACCTGGCTGGACAGCCTGC
TGACCCCAGTCCGGTTGCCCTCCATCCAGGCCATTCCCTGTGCACCGTTACCAGGGCCCCCTGGGCCCCCTCTTATTC
CTCTAGGCAAGCAGGACCTGGCATCATGGTGGATATGGTGCAGAGAAGCTGGACTTCTGTGGGCCCCCTAACAGC
CAAGTGTGACCCCACTGCCAAGTGGGGATGGGCCTCCCTCCTTGGGTCATTGACCTCTCAGGGCCTGGCAGGCCA
GTGTCTGGGTTTTTTCTTGTGGTGTAAGCTGGCCCTGCCTCCTGGGAAGATGAGGTTCTGAGACCAGTGTATCAG
GTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTTCTCTGAGCCCAGCTGCCTGGAGAGGGTCTCGCTGTCA
CTGGCTGGCTCCTAGGGGAACAGACCAGTGACCCAGAAAAGCATAACACCAATCCAGGGCTGGCTCTGCACTA
AGCGAAAATTGCACTAAATGAATCTCGTTCCAAAGAACTACCCCTTTTTCAGCTGAGCCCTGGGGACTGTTCCAAA
GCCAGTGAATGTGAAGGAAACTCCCCCTCCTTCGGGGCAATGCTCCCTCAGCCTCAGAGGAGCTTACCCTGCTCC
CTGCTTTGGCTGAGGGGCTTGGGAAAAAAACTTGGCACTTTTTTCGTGTGGATCTTGCCACATTTCTGATCAGAGG
TGTACACTAACATTTCCCCCGAGCTCTTGGCCTTTGCATTTATTTATACAGTGCCTTGCTCGGGGCCACCACCC
CCTCAAGCCCCAGCAGCCCTCAACAGGCCCAGGGAGGGAAGTGTGAGCGCCTTGGTATGACTTAAATTTGGAAAT
GTCATCTAACCATTAAGTCATGTGTGAACACATAAGGACGTGTGTAAATATGTACATTTGTCTTTTTATAAAAAG
TAAATTTGTT

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FIGURE 530

MPITRMRMPWLEMQINSNQIPGLIWINKEEMIFQIPWKHAAKHGWDINKDACLFERSWAIHTGRYKAGEKEPDPK
TWKANFRFCAMNSLPDIEEVKDQSRNKGSSAVRVYRMLPPLTKNQRKERKSKSSRDAKSKAKRKSCGDSSPDTFSD
GLSSSTLPDDHSSYTVPGYMQDLEVEQALTPALSPCAVSSTLPDWHIPVEVVPDSTSDLYNFQVSPMPSTSEATT
DEDEEGKLPEDIMKLLEQSEWQPTNVDGKGYLLNEPGVQPTSVYGDFSCKEEPEIDSPGGDIGLSLQRVFTDLKN
MDATWLDSLLTPVRLPSIQAIPCAP

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FIGURE 531A

CTGGGCCAGGCGCCGGGGCAGGAAGGGAGGCGGCCCGCTGGCCATTCTTAAAGGCGCCCGAGTGTAGGCGACAG
GCCGCTGACGGCGGGAAGGAAAATGAGTGTAGTCTTTGGTTGTTTGTGATGTTGCCGAAGATTTAGTGGAAGGCT
GAGAAAAGTTTCGTTTTTCGCAAAGAAACGAACAACGCTGCTATTATAATGAAGATTGACAAGGATAAACGCCTGGT
GGTACTGGATGAGGAGCTTGAGGGCATTTCACCAGATGAACCTTAAAGATGAACCTACCTGAACGACAACCTCGCTT
CATTGTGTATAGTTATAAATATCAACATGATGATGGAAGAGTTTCATATCCTCTGTGCTTTATTTTCTCCAGTCC
TGTGATGTAAGCCTGAACAACAGATGATGATGCTGGAAGTAAGAATAAGCTAGTCCAGACAGCTGAACCTAAC
CAAGGTATTTGAAATAAGAAATACCGAAGACCTAACTGAAGAATGGTTACGTGAGAACTTGGATTTTTTCACTA
ATGTGAACCTCTGTGTTTCTAAAGTATTTATGTATTAACCTGACCATACTGGAATCAGACATAAATACTTATTTA
TGCCTAAAAATGCACTGTTACTTACAGTTTGTTCCTGCAGTAAAGAAAAATTCTTCATTTGTGCAAAATTTGAA
CAAAGAGGAAATCATCTTCATAGTAATGAACTTTGTAAAGTGTTCCTTATATTGGTAATTGTTAGGTGGACTA
CTTTTCTCCAGGGACTTTTTGCACTCTTGTGACTAATTTCTATACTTATGGTTCGGAATTTGTTACTATTTACA
GACACCATTTGGAAGTGGATATATTAGATTGTGAGAGACAACAGTTGCCTCCTTTTGACAAATACTGGATATTAG
CAGTTTATTTATGAAATAGCGTATTATCACTTGTCAAATCATTTGAAATTCATTTGGGGTCAAAGACTTGAGTGA
CCCAGTATTGAGCCATGAATAATTTAGTGTAACCTGTATTACAAGTACATTGATGAATTTCTGTATCTTCTTTGGT
TTCTGTATCTTTTTAATCAAGTCTAGAACTATGTTTCATCAGTCACTCATTTTTAAGGTCGGGAGTTAGATTTT
ATGATAGAATTATGACTGTTAGCTTTTCTCCTTATAGCATCTTAGTCTTAGAAATTGGTGGGTGTAATAATCAA
GGGCTTCATTCTTTTTATGTCATTTCTAGACAGTTTGAATCTAGGTTAATAACACTTTATTTATAAAGCACCTC
AATGTCCTGTGAACACTAATTATTTTAAATGTGTTAATACTGTGCCTTTGATTTGTTAGCTTTAAAGTTAGTTTA
AGACTTTTACACTGCCAGTATTCCACATTTGGTGAAATTAATACTTTTTTAAAGGTCCAAATAAAATAATTTTC
TAATGTGTATATCTGAAATTTGTAATAAAATCAACTTCATTTTTTAAATTTCCAATATCTGCTTGCATTGGTG
TAATATATGGCAGTCGAGAGTTATAATTTTGGGTATACTTGTGGTTAGTTTTGTGCCATAGGAAAAAATTATCTT
AAAACTTTGGCCATAGTTAATAACATTAAACACTTCAATAGCAATCACATCTTATATCCTAAATGTCAGAAGATAT
TCTGAACTGGATGCCTGAATAGTTAACTAAACCAGTCTTGGTTAGATGATGGTACTCTTGGCATAAAGCGTAGGA
TTCTGATATTTGGCATACTTGTAAAAACAAATACATAAGTAACCATTGAACATTAATTTGATAATAGGTCTAGAG
ACTCTAAAAACTAACCAACTTGGTGAGTGTATTCTTATATTAAGAATATCTTAGTCATCTCAAACTAGCAAAA
TTTTAAATTTTGGCATGTTTTCCATTTCATATGTTCTTTGCATTTTATTTTTGAGGTTTCTGTGAGAAGTAAAGATA
GTTGGAATTTTTCGATATTGAATAGAACATCTTCTGTTCCTCAACACTGTTTGGCTTCACTAATTTAGAAGTCAG
GAAGCAATAGAAAGTTGGAGATGAGGAAGTCTAGAGTAGGTGTTTGTGTTTGGTCTTGGAGGGAAAAGATTCTT
TATTCCAATTTCCAGAGAGAAGAGAAACTCACCCAGGAAGTTTAAAAATTCTTTAAACAGGTATTTTGATATTG
GAGAATAACATGCATATAATTCTGTAGGAATGCACATGTAATCCAAGTGAGTGGAGAGTGTTTTTAATGTTTTTG
AATGAAGGAAATGAGGTTTTGTTTACCTGTTTTGCAGCAGTAAGAGAACTAGTGTCTGCAAGAATGTATTTTTT
AATGAAGTTCCTTATTTTGTCTTGCATGTTTTAGTTTTGCTTATTTTTAAATTTGGAGGTCTCCATAATGTCAG
ATAATATTGACCTGCCATACGTTAGCACTCTTAGTTCGCTACTGTCTTTAACAGGAGCAAAGAGCTGTGATAAA
CCATGCTTTTTTGAGCTTGTCTGACTCCTAATTAATAACATGTTTTTGGCAAGACAACAGATTGAGGTTAGAGGA
TCAGTAGGACATTTTTATTCCATCTGTCTATGGGGAAATTTACAAATCCCGTGTCTCTAAATGTTCTCAAACAT
TTATATAGATTTCCCTTTTCATCTTACTAAATTTGCATTGTTCTTTTCAAGTATGTTTCGTATTTACTGTCTTTT
TTTCTGCCATTTCCCAAATAATAACTCCAGATTTTATAATCCAGTTTTTACATTCCGTTATCTTTCTGGTACAA
CCATTCCCATTGAGCCTTAAATCTGAGTCCTTTTTTAGCAGCAACTTTTTTCTGGGATCCTCCTTCGTGGTCTTC
TAAGTCAGTGTAGTTTTGAAATTTTTGGCCCTGCATAAGTTCTGCATAGCATCTAATGTCAAAATAGAACCAAC
TGGTAATCACAGTATTATTTAGTGTGGTTTTCCATGACAACAAAAATACATACGAAGAAAACCTTCTCAGGTTACTA
TGCTGAAATTTCAAATGTCTGAGTTTTGAATAGTGATCACTTTGTTCTGGTATTGACGCAATTATATTAGGAAA
AAAGTTGGTTGACTGTTTTTGTGTTAATTGACTTCTAAAAATGTTCAAATTTGTCTAGTTCTAAAAGTTTACTAAATG
CCTAGTGCAGTTAAACATACTCTTGTGTTAAGTGTGTGTTGCTAAATTTTTTACTGTCTATTACTAAATAATCTGTG
TGGCAAAATGTGTGTCAGCACTTTTCCCTCCTTTTTTATCTCCTATTTTTCAGGAGTCAAATGTAGCCATAAACTG
TATCCTTGTCTGACACTTTAGCTAAAAATTTCCAGTTAGGGGAGTTTATTGCCAAATTAATTTGGCTGTTCCCC
CCAACCCATATAGATATTAAGGAAGGTGTACTTAAAAATGTTTGGACTGCTTTTAAACCTGAGCAATGTCATT
AATCCATATGTGGACTAGTGATGAATAGATATTTTCATAAGAGTTTAAATGACTGATATTTGGTGGAGTAGAGA
GTAACCTCAATATTCTATCAATTCAAGTATTCTTACTATGGTTGCCTTTCCCTATTTGTTCAATAGACTGATAATA

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FIGURE 531B

CTGGTATTTATAGAGTTTGAGCCATTACAACCTTTGTGAGGATGTGTTTCAAACATTTCTGGACAAATCTTATTT
TGTATTTCTGGAAGAATGTAGTAATCTTCTAGACCGCTTAAAACCAATGCTCCCAAGCTGAATATTCTTGAGCAA
ATTTGTTTTTTATTATGCCATTTGACATTTCAAATCAGTGCTCATATACAGTAAACTTGTGATAGAAATTGTATT
TTATTGCTTTTTGGATTATAATTCATATAAAATATAATTACTTGAATATTGTTTGAGATCATTAAACATGCCAGGGC
AGTTCCCACTGATTTAGATGGTCCAAGATAATCTCATTGAGGAGGCTTGAAACATTAATGGTTTAGTCTTGAGAA
TTTTAACAGTTCTCTGTCATCGTTTAACAAAACCAACAACCTGACACAACCTCCTTAAGCTGTGGTTTCAGTCTCTG
CTAGTTCATATTGCATGTTTATTTTGGACAGTCTTTTGTTAAGCATGGTGCTTGTACTGGTTTAAATAAAATGTT
AACATT

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FIGURE 532

MSESLVVCDAEDLVEKLRKFRFRKETNNAAIIMKIDKDKRLVVLDEELEGISPDELKDELPERQPRFIVYSYKY
QHDDGRVSYPLCFIFSSPVGCKPEQQMMYAGSKNKLVTAE LTKVFEIRNTEDLTEEWLREKLGFFH

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FIGURE 533

AGGAAGCCGACTAGGCGAATTCACCTTACTGACCGGCCTGGGCTGCTCTGAGACATGGAGGAAGCCAGTGAAGGTG
GAGGAAATGATCGTGTCGGAACCTGCAAAGTGAGGTGGAGGGAGTTAAGAATATTATGACCCAGAATGTGGAGC
GGATCCTGGCCCCGGGGGGAAAACCTTGAACATCTCCGCAACAAGACAGAGGATCTGGAAGCCACATCTGAGCACT
TCAAGACGACATCGCAGAAGGTGGCTCGGAAATTCTGGTGGAAGAACGTGAAGATGATTGTCCTTATCTGCGTGA
TTGTTTTTATCATCATCCTCTTCATTGTGCTCTTTGCCACTGGTGCCCTTCTCTTAAGTAACAGGGAACCTCTCCC
ACCTGCCCTTCTTTTCAGGGACAACCCTCCATAAATGTGTGCCAAGAGGGTCTCCTTTCCTGTCTTCCTCTACAG
AGAATGCTGCTCGGTCCTCCTACCCCTCTTCCCGAGGCCCTGCTGCCACGTTGTATGCCCCAGAAGGTACCTTGG
TCCCCCGGAAGGAGAGAGAAAAAGAGAGATGGACTGTGGCTGCATTTCTTGGGTCCTTAGAGTGGGCTGGAGAGAC
CTAGAGGGCCCAGCATGTGGCTGGGAAACTGTTGGTGGCCAGTGGGTAATAAAGACCTTTCAGTATCCCTAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 534

MEEASEGGGNDVRNLQSEVEGVKNIMTQNVERILARGENLEHLRNKTEDLEATSEHFKTTSQKVARKEFWWKNVK
MIVLICVIVFIIILFIVLFATGAFS

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FIGURE 535A

GGCCCGGCTGCGAGGAGGAGGCGGCGGCGGCGCAGGAGGATGTACTTGGTGGCGGGGACAGGGGGTTGGCCGGC
TGCGGGCACCTCCTGGTCTCGCTGCTGCTGGGGCTGCTGCTGCTGCTGGCGCGCTCCGGCACCCGGGCGCTGGTCTGC
CTGCCCTGTGACGAGTCCAAGTGCAGGAGAGCCAGGAACTGCCCGGGGAGCATCGTGCAGGGCGTCTGCGGGCTGC
TGCTACACGTGCGCCAGCCAGAGGAACGAGAGCTGCGGCGGCACCTTCGGGATTTACGGAACCTGCGACCCGGGG
CTGCGTTGTGTATCCGCCCCCGCTCAATGGCGACTCCCTCACCGAGTACGAAGCGGGCGTTTTGCGAAGATGAG
AACTGGACTGATGACCAACTGCTTGGTTTTAAACCATGCAATGAAAACCTTATTGCTGGCTGCAATATAATCAAT
GGGAAATGTGAATGTAACACCATTGCAACCTGCAGCAATCCCTTTGAGTTTCCAAGTCAGGATATGTGCCTTTCA
GCTTTAAAGAGAATTGAAGAAGAGAAGCCAGATTGCTCCAAGGCCGCTGTGAAGTCCAGTTCTCTCCACGTTGT
CCTGAAGATTCTGTTCTGATCGAGGGTTATGCTCCTCCTGGGGAGTGTGTCCCTTACCCAGCCGCTGCGTGTGC
AACCCCGCAGGCTGTCTGCGCAAAGTCTGCCAGCCGGGAAACCTGAACATACTAGTGTCAAAGCCTCAGGGAAG
CCGGGAGAGTGTGTGACCTCTATGAGTGCAAACAGTTTTCGGCGTGGACTGCAGGACTGTGGAATGCCCTCCT
GTTGAGCAGACCGCTGTCTCCCGGACAGCTATGAACTCAAGTCAGACTAACTGCAGATGGTTGCTGTACTTTG
CCAACAAGATGCGAGTGTCTCTGCTTATGTGGTTTCCCGTGTGTGAGGTGGGATCCACTCCCCGCATAGTC
TCTCGTGGCGATGGGACACCTGGAAAGTGTGTGATGCTTTGAATGTGTTAATGATACAAAGCCAGCCTGCGTA
TTTAACAATGTGGAATATTATGATGGAGACATGTTTGAATGGACAACCTGTCGGTTCTGTGATGCCAAGGGGGC
GTTGCCATCTGCTTCACTGCCCAGTGTGGTGAGATAAACTGCGAGAGGTACTACGTGCCCGAAGGAGAGTGTGC
CCAGTGTGTGAAGATCCAGTGTATCCTTTTAATAATCCCGCTGGCTGCTATGCCAATGGCCTGATCCTTGCCAC
GGAGACCGGTGGCGGGAAGACGACTGCACATTCTGCCAGTGCCTCAACGGTGAACGCCACTGCGTTGCGACCGTC
TGCGGACAGACCTGCACAAACCCTGTGAAAGTGCTGGGGAGTGTGCGCTGTGTGCGAAGAACCAACCATCATC
ACAGTTGATCCACCTGCATGTGGGAGTTATCAAACCTGCACTCTGACAGGGAAGGACTGCATTAATGGTTTCAA
CGCGATCACAATGGTTGTGCGACCTGTGAGTGATAAAACCCGAGGAACTATGTTTGAACGTAACCAAGGCTGC
ACCTTGAACTGTCCCTTCGGTTTCTTACTGATGCCCCAAACCTGTGAGATCTGTGAGTGCCGCCCCAAGGCCCAAG
AAGTGCAGACCCATAATCTGTGACAAGTATTGTCCACTTGGATTGCTGAAGAATAAGCACGGCTGTGACATCTGT
CGCTGTAAGAAATGTCCAGAGCTCTCATGCAAGTATCTGCCCTTGGGTTTCCAGCAGGACAGTACAGGCTGT
CTTATCTGCAAGTGCAGAGAGGCCTCTGCTTCAGCTGGGCCACCCATCCTGTCGGGCACCTTGTCTCACCGTGGAT
GGTCATCATCATAAAAAATGAGGAGAGCTGGCACGATGGGTGCCGGGAATGCTACTGTCTCAATGGACGGGAAATG
TGTGCCCTGATCACCTGCCCGGTGCCTGCCTGTGGCAACCCACCATTACCCCTGGACAGTGTGCCCATCATGT
GCAGATGACTTTGTGGTGCAGAAGCCAGAGCTCAGTACTCCCTCCATTTGCCACGCCCTGGAGGAGAATACTTT
GTGGAAGGAGAAACGTGGAACATTGACTCCTGTACTCAGTGCACCTGCCACAGCGGACGGGTGCTGTGTGAGACA
GAGGTGTGCCACCGCTGCTCTGCCAGAACCCTCACGCACCCAGGATTCTGTGCTGCCACAGTGTACAGATCAA
CCTTTTCGGCCTTCCTTGTCCCGCAATAACAGCGTACCTAATTACTGCAAAAATGATGAAGGGGATATATTCCTG
GCAGCTGAGTCTTGAAGCCTGACGTTTGTACCAGCTGCATCTGCATTGATAGCGTAATTAGCTGTTTCTCTGAG
TCCTGCCCTTCTGTATCCTGTGAAAGACCTGTCTTGAGAAAAGGCCAGTGTGTCCCTACTGCATAGAAGACACA
ATTCCAAAGAAGGTGGTGTGCCACTTCAGTGGGAAGGCCATGCCGACGAGGAGCGGTGGGACCTTGACAGCTGC
ACCCACTGCTACTGCCCTGCAGGGCCAGACCCTCTGCTCGACCGTCAGCTGCCCCCTCTGCCCTGTGTTGAGCCC
ATCAACGTGGAAGGAAGTTGCTGCCCAATGTGTCCAGAAATGTATGTCCAGAACCAACCAATATACCCATTGAG
AAGACAAACCATCGAGGAGAGGTTGACCTGGAGGTTCCCTGTGGCCCACGCCTAGTGAAAATGATATCGTCCAT
CTCCCTAGAGATATGGGTACCTCCAGGTAGATTACAGAGATAACAGGCTGCACCCAAGTGAAGATTCTTCACTG
GACTCCATTGCCCTCAGTTGTGGTTCCATAATTATATGCCTCTCTATTATAATAGCATTCTTATTCATCAATCAG
AAGAAACAGTGGATAACCACTGCTTTGCTGGTATCGAACACCAACTAAGCCTTCTTCCTTAAATAATCAGCTAGTA
TCTGTGGACTGCAAGAAAGGAACCAAGAGTCCAGGTGGACAGTTCCAGAGAATGCTAAGAATTGCAGAACCAAGAT
GCAAGATTGAGTGGCTTCTACAGCATGCAAAAACAGAACCATCTACAGGCAGACAATTTCTACCAAACAGTGTGA

AGAAAGGCAACTAGGATGAGGTTTCAAAGACGGAAGACGACTAAATCTGCTCTAAAAAGTAAACTAGAAATTTGT
GCACTTGCTTAGTGGATTGTATTGGATTGTGACTTGATGTACAGCGCTAAGACCTTACTGGGATGGGCTCTGTCT
ACAGCAATGTGCAGAACAAAGCATTCCCACCTTTTCTCAAGATAACTGACCAAGTGTCTTTCTTAGAACCAAGTTT
TTAAAGTTGCTAAGATATATTTGCCTGTAAGATAGCTGTAGAGATATTTGGGGTGGGGACAGTGAGTTTGGATGG
GGAAATGGGTGGGAGGTTGGTGTGGGAAGAAAAATTGGTCAGCTTGGCTCGGGGAGAAACCTGGTAACATAAAA
GCAGTTCAGTGGCCAGAGGTTATTTTTTCTATTGCTCTGAAGACTGCACTGGTTGCTGCAAGCTCAGGCCT

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FIGURE 535B

GAATGAGCAGGAAACAAAAAGGCCTTGCGACCCAGCTGCCATAACCACCTTAGAACTACCAGACGAGCACATCA
GAACCCCTTTGACAGCCATCCCAGGTCTAAAGCCACAAGTTTCTTTTCTATACAGTCACAACCTGCAGTAGGCAGTG
AGGAAGCCAGAGAAATGCGATAGCGGCATTTCTCTAAAGCGGGTTATTAAGGATATATACAGTTACACTTTTTGC
TGCTTTTATTTTCTTCCAAGCCAATCAATCAGCCAGTTCCCTAGCAGAGTCAGCACATGAACAAGATCTAAGTCAT
TTCTTGATGTGAGCACTGGAGCTTTTTTTTTTTTTTACAACGTGACAGGAAGAGGAGGGGAGAGGGGTGACGAACACCA
GGCATTTCAGGGGCTATATTTCACTGTTTGTGTTGCTTTGTTCTGTTATATTGTTGGTTGTTTCATAGTTTTTG
TTGAAGCTCTAGCTTAAGAAGAACTTTTTTTAAAAAGACTGTTTGGGGATTCTTTTTCTTATTATATACTGAT
TCTACAAAATAGAACTACTTCATTTTAATTGTATATTATTCAAGCACCTTTGTTGAAGCTCAAAAAAATGATG
CCTCTTTAACTTTAGCAATTATAGGAGTATTTATGTAACCTATCTTATGCTTCAAAAAACAAAAGTATTTGTGTG
CATGTGTATATAATATATATATATACATATATATTTATACACATACAATTTATGTTTCTGTTGAATGTATTTT
TATGAGATTTTAACCAGAACAAGGCAGATAAACAGGCATTCCATAGCAGTGCTTTTGATCACTTACAAATTTTT
TGAATAACACAAAATCTCATTCTACCTGCAGTTTAATTGGAAAGATGTGTGTGTGAGAGTATGTATGTGTGTGTG
TGTGTGTGTGTGTGTGCGCGCGCACGCACGCCTTGAGCAGTCAGCATTGCACCTGCTATGGAGAAGGGTATTCCT
TTATTAATACTTCCTCATTGATTGCTTTTCAAGTTGGTTTTTCAATTTGCTCACTGGCCAGAGACATTGATGGC
AGTTCTTATCTGCATCACTAATCAGCTCCTGGATTTTTTTTTTTTTTTTTTCAAACAATGGTTTGAAACAACCTAC
TGGAATATTGTCCACAATAAGCTGGAAGTTTGTGTAGTATGCCTCAAATATAACTGACTGTATACTATAGTGGT
AACTTTTCAAACAGCCCTTAGCACTTTTATACTAATTAACCCATTTGTGCATTGAGTTTTCTTTTAAAAATGCTT
GTTGTGAAAGACACAGATACCCAGTATGCTTAACGTGAAAAGAAAATGTGTTCTGTTTTGTAAAGGAACTTTCAA
GTATTGTTGTAAATACTTGACAGAGGTTGCTGAACTTTAAAAAAAATTAATTTATTATTATAATGACCTAATTT
ATTAATCTGAAGATTAACCATTTTTTTGTCTTAGAATATCAAAAAGAAAAAGAAAAGGTGTTCTAGCTGTTTGC
ATCAAAGGAAAAAAGATTTATTATCAAGGGGCAATATTTTTATCTTTTCCAAAATAAATTTGTTAATGATACAT
TACAAAAATAGATTGACATCAGCCTGATTAGTATAAAATTTTGTGGTAATTAATCCATTCCCTGGCATAAAAAAGTC
TTTATCAAAAAAATTGTAGATGCTTGCTTTTTTGTTTTTTCAATCATGGCCATATTATGAAAATACTAACAGGAT
ATAGGACAAGGTGTAAATTTTTTTATTATTATTTTAAAGATATGATTTATCCTGAGTGCTGTATCTATTACTCTT
TTACTTTGGTTCTGTTGTGCTCTTGTAAGAAAAATATAATTTTCTGAAGAATAAAATAGATATATGGCACTT
GGAGTGCATCATAGTTCTACAGTTTGTTTTTGTCTTCAAAAAAGCTGTAAGAGAATTATCTGCAACTTGATT
CTTGGCAGGAAATAAACATTTTGAGTTGAAATCAAAAAAAAAAAAAAAAAA

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FIGURE 536

MYLVAGDRGLAGCGHLLVSLGLLLLLLARSGLTRALVCLPCDESKCEEPRNCPGSIVQGVCGCCYTCASQRNESC
GTFTGIYGTCDRGLRCVIRPPLNGDSLTEYEAGVCEDENTDDQLLGFKPCNENLIAGCNIINGKCECNTIRTCSN
PFEFFPSQDMCLSALKRIEEKPDCKARCEVQFSPRCPEDSVLIEGYAPPGECCLPSRCVCNPAGCLRKVCQPG
NLNILVSKASGKPGECDDLYECKPVFGVDCRTVECPVQQTACPPDSYETQVRLTADGCCTLPTRCECLSGLCGF
PVCEVGSTPRIVSRGDGTPGKCCDVFEVCVNDTKPACVFNNVEYYDGMFRMDNCRFCRCQGGVAICFTAQCGEIN
CERYVPEGECCPVCEDPVYPFNNPAGCYANGLILAHGDRWREDDCTFCQCVNGERHCVATVCGQTCTNPVKVPG
ECCPVCEEPTIITVDPPACGELSNTLTGKDCINGFKRDHNGCRCTQCINTEELCSERKQGCTLNCPFGFLTDAQ
NCEICECRPRPKKCRPIICDKYCPLGLLKNKHGCDICRCKKCPSELSCSKICPLGFQQDSHGCLICKCREASASAG
PPILSGTCLTVDGHHHKNEESWHDGCRECYCLNGREMCALITCPVPACGNPTIHPGQCCPSCADDFVVQKPELST
PSICHAPGGEYFVEGETWNIDSCTQCTCHSGRVLCETEVCPPLLCQNPSTQDSCCPQCTDQFFRPSLSRNNSVP
NYCKNDEGDIFLAAESWKPDVCTSCICIDSVISCFSESCPSVSCERPVLKRGQCCPYCIEDTIPKKVVCHFSGKA
YADEERWDLDSCTHCYCLQGQTLCTVSCPPLPCEP INVEGSCCPMCPEMYVPEPTNIPIEKTNHRGEVDLEVP
LWPTPSENDIVHLPRDMGHLQVDYRDNRLHPSSEDSSLDIASVVPIIICLSIIIAFLFINQKKQWIPLLCWYRT
PTKPSSLNNQLVSDCKKGRVQVDSSQRMRLRIAEPDARFSGFYSMQKQNLQADNFYQTV

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FIGURE 537

CTCGGAAGCCCGTCACC**ATG**TCGTGCGAGTCGTCTATGGTTCTCGGGTACTGGGATATTTCGTGGGCTGGCGCACG
CCATCCGCCTGCTCCTGGAGTTCACGGATACCTCTTATGAGGAGAAACGGTACACGTGCGGGGAAGCTCCTGACT
ATGATCGAAGCCAATGGCTGGATGTGAAATTCAAGCTAGACCTGGACTTTCCTAATCTGCCCTACCTCCTGGATG
GGAAGAACAAGATCACCCAGAGCAATGCCATCTTGCGCTACATCGCTCGCAAGCACAAACATGTGTGGTGAGACTG
AAGAAGAAAAGATTTCGAGTGGACATCATAGAGAACCAAGTAATGGATTTCCGCACACAACCTGATAAGGCTCTGTT
ACAGCTCTGACCACGAAAACTGAAGCCTCAGTACTTGGAAGAGCTACCTGGACAACCTGAAACAATTCTCCATGT
TTCTGTGGAAATTTCTCATGGTTTGCCGGGGAAAAGCTCACCTTTGTGGATTTTCTCACCTATGATATCTTGGATC
AGAACCGTATATTTGACCCCAAGTGCCTGGATGAGTTCCCAAACCTGAAGGCTTTCATGTGCCGTTTTGAGGCTT
TGGAGAAAATCGCTGCCTACTTACAGTCTGATCAGTTCTGCAAGATGCCCATCAACAACAAGATGGCCCAGTGGG
GCAACAAGCCTGTATGCT**TGAG**CAGGAGGCAGACTTGCAGAGCTTGTTTTGTTTCATCCTGTCCGTAAGGGGTCAG
CGCTCTTGCTTTGCTCTTTTCAATGAATAGCACTTATGTTACTGGTGTCCAGCTGAGTTTCTCTTGGGTATAAAG
GCTAAAAGGGAAAAAGGATATGTGGAGAATCATCAAGATATGAATTGAATCGCTGCGATACTGTGGCATTTCCTT
ACTCCCCAACTGAGTTCAAGGGCTGTAGGTTTCATGCCCAAGCCCTGAGAGTGGGTACTAGAAAAAACGAGATTGC
ACAGTTGGAGAGAGCAGGTGTGTTAAATGGACTGGAGTCCCTGTGAAGACTGGGTGAGGATAACACAAGTAAAC
TGTGGTACTGATGGACTTAACCGGAGTTCGGAAACCGTCCTGTGTACACATGGGAGTTTAGTGTGATAAAGGCAG
TATTTCAAGACTGGTGGGCTAGCCAATAGAGTTGGCAATTGCTTATTGAACTCATTAAAAATAATAGAGCCCCAC
TTGACACTATTCATAAAATTAATCTGGAATTTAAGGCCAACATTAAACACAAAGCTGTATTGAT

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FIGURE 538

MSCESSMVLGYWDIRGLAHAIRLLLEFTDTSYEEKRYTCGEAPDYDRSQWLDVKFKLDLDFPNLPYLLDGKNKIT
QSNAILRYIARKHNMCGETEEEEKIRVDIIENQVMDFRTQLIRLCYSSDHEKLPQYLEELPGQLKQFSMFLWKFS
WFAGEKLTfVDFLTyDILDQNRIFDPKCLDEFPNLKAFMCRFEALEKIAAYLQSDQFCKMPINNMAQWGNKPVC

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FIGURE 539

CGGCTGCTGCTGCCACTGCTGTGCTGGGGGCCCCGGTCGCCAGGCCAAAAAGCCCTCCACGTTTGAGGGGAGTCATG

AGCCGTTTTCTGAATGTGTTAAGAAGTTGGCTGGTTATGGTGTCCATCATAGCCATGGGGAACACGCTGCAGAGC
TTCCGAGACCACACTTTTTCTCTATGAAAAGCTCTACACTGGCAAGCCAAACCTTGTGAATGGCCTCCAAGCTCGG
ACCTTTGGGATCTGGACGCTGCTCTCATCAGTGATTGCTGCCTCTGTGCCATTGACATTACACAACAGACGCTC
TATCACATCACACTCTGGACCTTCCCTCCTTGGCCCTGGGGCATTTCCTCTCTGAGTTGTTTGTCTATGGAAGTGA
GCTCCACGATTGGCGTCCTGGCACCCCTGATGGTGGCAAGTTTCTCCATCCTGGGTATGCTGGTGGGCTCCGG
TATCTAGAAGTAGAACCAGTATCCAGACAGAAGAAGAGAAACTGAGGGCCAGCATTATCACCTCCAGGACTTCTC
GTTTTCCACCTTGGCCATCTTCTTCCTTCGTCGCTCTCTCTCTTAATTTCTTTTCTATTCCATCATCTGCCCTT
TTATTCACTTTTAGCCTCTTTTTTTTAAATTTTAAATTTAAAGATATGCATACTGAAAAGTATATAACATGTACG
TACAATTTAAAGAATAATTTTAAAGTGAATACTACGTAACCTCCATCCAAGTCAAGAAATTGCCAGCTTCTCGGAA
GCCCCTGTGCTCCTTCCCTACCTGCAACCTCTTCCAGGCTCCCTTTTCCAGCCTTCCCTTTTTCCCTTTTA
TTTTCATGCCCTTGATTTGACTTGTGTGGTGGGAACATGTGAACTATGAACTTAAACCTGCTGCCACCCAGAGC
AGCTGTGACCAAGGGCTGCCTCAAGGGGTTGTCCACGCAGGTTGGGCTCCTCTCTGCTGCTGGACCCAAGACTCT
GAACCTTCCAAGGGACAGGCAGTTCTTCTAAGAAGGGCTCCCTGTGTGTGAGCAAGACCACAGCTCTCCTTCTA
TCTACAGATGCATGAGGGTTGGAAGAGTCTGGGCTGTTTTTAGACCTTCTGGTCAGCTGTATTTGTGTAACAAC
TTTGTAATAAATAGAAAAACCTCTGCTCTGATCAGTTCTTGTACTTTGACCTCTGCTAAGACAAGAGCATGGCT
GCCTCCTCTGAGCCCTAGGAGAATCACAGCTTTATGCCTGATTGAATACACCATAGTGAGTAGGACAGCTCATGA
CACAGGTCAGCCTGGCTGCCTCCGGCTCCTTACTGTCAATTTGCTCATTCTCTTGTATTCTTGAAGTCAAATCTT
CTTTTTTCTCACCTTCAAGAGTCTGCGTTCACAACTAAACACTAAGTGCCCTTTCTTATTTCTCTCTAAAGAAGA
AACAGATTCTTGAGAGAGCAGAGACAAAAAATAGAACTAGGCAGCATAGATGAAACAACATGCATGACATGGGAA
GAAGACAACATAAACCCCGAGGAGAATGCACTGGAATGGACAGTTGCTCTTAAACCCTACCCAGAGGGCCTCCCC
AGCTGGACCCCTCATACACAGTGTGTGTATCCAAAAGGCCATTGCTATTTTCTAGCAAATATTTGTTGAGTACTTCTC
CATGCCGGACACTTGGGAAAGAGAAATGAACGACACAGGCAATGCCCTGCCCTGTGGGCCTTATATTATAGTCA
AGGTAACAGAATCAACAAGCCAACACAAAAATAAAGAACTTCAAATAGGGATAAGAACTCTAACAAACACAAGGT
ATTTTGGTCAAGAAGGAATGTGGGGTGGGCAGTGGGGAACGTAACTTAAATTAGATCATCAGAAAGTCTCCTG
AGGAGATGGATTTTTTTTTTGTTTTTTTAGAGACGGGGTTCACTCTGTCAACCAGGCTGGGAATTGCAGTGGCAC
AATCCCTCACTGCTGCCTCAACTTCCTGGGCTCAAGTGACCCTCCTGCATCAGCTTCCAAGTAGCTGGGACTGC
AAGTGTGTACCACCACATCCAGCTAACATTTTGGGGGTGGGAAGAGATGGGGTCTTACTATGTTGTCCAGGCTA
AGAGGTGGGATTTGAGCTGAGACTTGAATGCCAGGAGTTAAATGTCTTAAGATATGGAGCAGGCCGTTAGAAAG
GAGGGAGCAGCAACTGGAAGGTAGAATAGTCTTATTCAAGGAATAAGAACTATGTAATCACAGCATGGTGAAGAG
TTAGGAAGTGAAAAAAAAAAAAA

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FIGURE 540

MSRFLNVLRSWLVMVSI IAMGNTLQSFRDHTFLYEKLYTGKPNLVNGLQARTFGIWTLLSSVIRCLCAIDIHNKT
LYHITLWTFLLALGHFLSELFVYGTAAPTIGVLAPLMVASFSILGMLVGLRYLEVEPVSRQKRN

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FIGURE 541

AGTACATCGACCCGAGACCAAGAAGCACATCCCGTACCGCGAGCACAAGAGCCTGACGGGCACGGCGCGCTACA
TGAGCATCAACACGCACCTGGGCAAGGAGCAGAGCCGCCGCGACGACCTGGAGGCGCTGGGCCACATGTTTCATGT
ACTTCCTGCGCGGCAGCCTCCCCCTGGCAGGGGGCTCAAGGCCGACACGCTCAAGGAGCGGTACCAGAAGATCGGGG
ACACCAAACGCGCCACGCCCCATCGAGGTGCTCTGCGAGAACTTCCCAGAGGAGATGGCCACGTACCTGCGCTATG
TGCGGCGCCTGGACTTCTTCGAGAAGCCCCGACTATGACTACCTGCGGAAGCTCTTCACCGACCTCTTCGACCGCA
GTGGCTTCGTGTTTCGACTATGAGTACGACTGGGCGGGAAGCCCCCTGCCGACCCCCATCGGCACCGTCCACACCG
ACCTGCCCTCCCAGCCTCAGCTCCGGGACAAAACCCAGCCCCCTGAATCTTCTCCGTGCAGCCCCTTGGGGCGCG
ACCTTGTGCGAGGCCCTCGGGGCCCCACCCACAGCGGCCAGGGCCAGACCCTGGCTGGAAGCCAGAACGCAGACT
GCAGGGGCGCGCCTGGCTCAGGCGGCCCCACCCCCGGGACGTGGGGTCACTTCCTTCATGTAAGACTTTGGCCG
AAATTTCTACACCTGTGTCTAGTCTCCCTCCAAGAGCATTAACTATTTAAAACAAGGAAAAGAGGAAAAAAA
AACAGAGGCCCGCCCTACCCCACTCCTGCCCCCTCCGTTTCTTTGCTGAAGTGAGTAGTGTGATCCTGGAGGCCCC
CCGGCCTGGCCCCGCCCCGCCAGCCGCCCCCGTTAGCGTCATAAAGTCCAGCTTGCTCTCCCTCGATCCAAAGGCC
GTTTTCTCGAGGGGAGGGCAGGCCCGGCCTGGAGGGGTGCTGTGGAGCTGTCTTGCCAGGCCCTCCTGGGAGGG
GGACAGGCATTGTTGCCAGGGGTGAGGCCGTGCCCCAGGCCTCCCCGAAACCAAAGGGGAAGGCAGGGGTGGGGC
CGTGGCTGAAGCCGGCTCCCCAACCAAAATGCTGCACCAAAGCTCGGGCGCCGCGGGCACGGCTGCTGCAGTCTC
TTCCCAGCCTGGCCCTGGCAAGGGGCGGGTGGGCGCTGCCAGGCGGGTGCTTCTCGACGCACTTGCTCCCGGAGG
CTGCGCCCCGGCGCCTGGAACCCGAGGTGGGAGGACCGGTTGGTGTCACCCTGCTCGGCCCTCAGCCCTGCCGCG
TGGGGCGCGTGGGCACGGAGCTTCCTGCCTCTCTGCTCCGACACCCGGAAGCAGCCGGAGACAAAACGCCTTAA
AGCCCCCGGCCAGCCCTGCAGGTATATTGCAGGGGCCTGGGGGCGGCCCTGGACTGGCGGGCGGTTCCCCAGTG
GGGTGCCCTGGAGGCTGCCGGGCAGAGTGGAGCAGCTTGGGGCCGTGCCAGGGCGGTGGCTGTGAGTCTAGTTT
TTGCTTTACCAAGTGACAGAAATGGCATTTTACGTTTCTCTGATGCTCCCTTGAAGCCATAGAATTTAGGGGCTT
TTTTAAAAAAATAAAAGAAAAATGAAACCAAAAAAAAAA

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FIGURE 542

MSINHLGKEQSRDDLEALGHMFMYFLRGSLPWQGLKADTLKERYQKIGDTKRATPIEVLNCFPEEMATYLR
VRRLDFFEKPDYDYLRLKFTDLFDRSGFVFDYEYDWAGKPLPTPIGTVHTDLPSQPQLRDKTQPPSSPCSP
DLVRGPRGPPTAAQGQTLAGSQNADCRGAWLRRPHPRDVGSLPCKTLAEISTPVSSPPLQEH

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FIGURE 543

AGCTTTGGGGTTGTCCCTGGACTTGTCTTGGTTCCAGAACCTGACGACCCGGCGACGGCGACGTCTCTTTTGACT
AAAAGACAGTGTCCAGTGCTCCAGCCTAGGAGTCTACGGGGACCGCCTCCCGCGCCGCCACCATGCCCAACTTCT
CTGGCAACTGGAAAATCATCCGATCGGAAAACCTTCGAGGAATTGCTCAAAGTGCTGGGGGTGAATGTGATGCTGA
GGAAGATTGCTGTGGCTGCAGCGTCCAAGCCAGCAGTGGAGATCAAACAGGAGGGAGACACTTTCTACATCAAAA
CCTCCACCACCGTGCGCACCACAGAGATTAACCTTCAAGGTTGGGGAGGAGTTTGAGGAGCAGACTGTGGATGGGA
GGCCCTGTAAGAGCCTGGTGAAATGGGAGAGTGAGAATAAAATGGTCTGTGAGCAGAAGCTCCTGAAGGGAGAGG
GCCCCAAGACCTCGTGGACCAGAGAACTGACCAACGATGGGGAACTGATCCTGACCATGACGGCGGATGACGTTG
TGTGCACCAGGGTCTACGTCCGAGAGTGAGTGGCCACAGGTAGAACCGCGGCCGAAGCCCACCACTGGCCATGCT
CACCGCCCTGCTTCACTGCCCCCTCCGTCCCACCCCTCCTTCTAGGATAGCGCTCCCCTTACCCAGTCACTTC
TGGGGGTCACCTGGGATGCCTCTTGCAGGGTCTTGCTTTCTTTGACCTCTTCTCTCCTCCCCTACACCAACAAAGA
GGAATGGCTGCAAGAGCCCAGATCACCCATTCCGGGTTCACTCCCCGCCTCCCCAAGTCAGCAGTCCTAGCCCCA
AACCAGCCCAGAGCAGGGTCTCTCTAAAGGGGACTTGAGGGCCTGAGCAGGAAAGACTGGCCCTCTAGCTTCTAC
CCTTTGTCCCTGTAGCCTATACAGTTTAGAATATTTATTTGTTAATTTTATTAAATGCTTTAAAAAAA

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FIGURE 544

MPNFSGNWKIIRSENFEECLKVLGVNVMRLRKIAVAAAASKPAVEIKQEGDTFYIKTSTTVRTTEINFKVGEEFEEQ
TVDGRPCKSLVKWESENKMVCEQKLLKGEGPKTSWTRELTNDGELILMTADDVVCTRVYVRE

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FIGURE 545

GCACGCACTGGCCCCGGCGCCACCCGCACCCCTCCCCAGAGAGCACTGACACGGCTCCCGGGACCTCGGCAGGA
TTGGAAGAGAAGCTGAAGAAAACCAAGATCATCTTTGTGGTGGGTGGGCCTGGCTCAGGGAAGGGCACCCAGTGTG
AGAAGATCGTGCAGAAGTATGGCTACACCCACCTCTCCACCGGGGACCTCCTGCGGTCCGAGGTCTAGCTCAGGCT
CGGCCAGGGGCAAGAAGCTGTGGAATCATGGAGAAGGGGCAGCTGGTTCCACTGGAGACAGTGTGGACATGC
TCCGGGATGCCATGGTGGCCAAAGTCAATACTTTCCAAAGGCTTCCTGATTGAIGGCTACCCGCGGGAGGTGCAGC
AAGGAGAAGAGTTTGGAGCGACGGATTGGACAGCCACACTGCTGCTGTATGTGGACGCAGGCCCTGAGACCATGA
CCCAGCGGCTCTTGAAACGTGGAGAGACCAGCGGGCGTGTGGACGACAATGAGGAGACCATCAAAAAGCGGCTGG
AGACCTATTACAAGGCCACAGAACCCGTCATCGCCTTCTATGAGAAACGTGGCATTGTGCGCAAGGTCAACGCTG
AGGGCTCCGTGGACAGTGTCTTCTCCAGGTCTGCACCCACCTGGACGCCCTAAAGTAGCAACGCTGGAGCCGCT
TCCCCAGCTCAGAGCCCCGCCCCACCCGTCCTGATTAGAGGTCTCTGGCCTGAGCGCAGCGCTCCACCCTG
CCCTGCTGAGCACAGACGGAGGAAGCCGCTTATCTGTTTTTCATGGACAGCTGAGCACTAAAGGAATTTCTAAGG
ACATTTGGTTTTACTGCTTTTTCTCTGCTTCCAGTTGGAGTTGATTCATGTGCTTGTGCCTACCTGGCCGCAAGT
CCCCAGCCCCCTCAACCCTCCGTTCTCTCCTCAGCCTCCCTTTGCCAGCCACCCCTCCTCTAGCTCTGGTGGGAGGC
CCGGGGCCCTTCTCGCACAGGGCATGCCTGGCCTGAGGACCCGGCGCTGAGTGGCGGGGCCCCCTGCTCCGAGGG
GCTCATGTTTCAGGCAGAACCGGTCCAGCCTGGGCTCCTCTGCATCTTGCTCTGTGCCTTGGCCCTGACCCCCAT
CGCTCTGAGCATATGTTCCATGCCTGCCTTGCCGGGGCTGGACTGCACAGGCAGCAAGGTTCATGGTCTGAGTGG
GGCTTCTGGGCAGTTGGGGCGGGCCACGCCAGCTGGCCAGTGGGTAGTGAATTGGCTTCCTTGACGCGAGAGG
CTCTGAGGGTCTGAAAAGGGCATCTCAATGGCATGGGTGGGTGGGGAGTCAGTCATGTCACTGAAATTGAATGGG
GGAGGCCCAATGAGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAAGCTGAGGCAGGAGGATCACCTGAGGTC
AGGAGTTCGAGAGCAGCCTGGCCAACATGGCAAAACCCCTTATTTACTAAAAATACAAAACTTAGCCGGGCATG
GTGGCATGTGCCTGTATTCCCAGCTACTCATGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGTGGAGCTTG
CAATGAGCCAAGATTGCGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCCGTCTCAAAAAAAAAAAAAAAAA
AAAAAAGAAATTAATTGGGGGAGTCATGGTCAGGGGTGAGACCTGAAGGACCTCCCCCTGTGTGGCCCTGGACAC
AGCCACCCCTCTGTGAGCCGTTTCCAATTCTAAAACAGACTCAATGTCCCCCTCACCCACCTCAAGGTCAGGA
TGCGAACACACTGAGTGAGGAGTGGACGCTGTCCATTGCCACGGCCATGAGGGCTGGAGACCAGAACAGCATGGC
CCGAAGCGTGCGGGGCCCCGGATGACTTGGGGACACCCCAAGAAATCCCCCTGGGGAGAACCCTTCTGCGCGCTTTC
ATTTTTTGACCTCATCACTGAGAAAGGCTCAATTTGGTGCTCACGTGTCTTAACACCTGATCTGGCCCAAGCTG
CGTGCCCTTTAAGCCAAGAGAGCCTCTTGTGGACCCCGCCTGCCCGAATGAAATCCGAACAGTTGGGGCTGTTAT
GGCAAGTGGGGCTGGTTTTTTCATTTCCATTGGTTATTTAAAGTTTCTTTAAAAATAAACGATTTTAAGTTATAAA
AGGTGAATCTATTGAAAGAAGAACATCAAAGAAATAAACAGGAGTTCAGCGGAGTAGCAGAAGACAAGGCATGTA
GGGGGAGCCATTCTGTCCAG

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FIGURE 546

MEEKLKKTKIIFVVGGPGSGKGTQCEKIVQKYGYTHLSTGDLLRSEVSSGSARGKKLSEIMEKGQLVPLETVLDM
LRDAMVAKVNTSKGFLIDGYPREVQQGEEFERRIGQPTLLLYVDAGPETMTQRLLKRGETSGRVDDNEETIKKRL
ETYYKATEPVIAFYEKRGIVRKVNAEGSVDSVFSQVCTHLDALK

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FIGURE 547

CGGTTTCCTCCCCATCCCCTTGA CTCTCCCCTCCCAGCCCTCGCTCTCTCGCTCGCCCTCAGCGCGGCCCCCGC
CATGACGGAGGCGGGTGCCGGTGCCGTTGCCGCCGCTGCCGTGCGAGGGGGGGAGTCGGGTTCCCAGAAAAGTAGC
TTGATGAGTGTCCAAAGTAGCAGTGGAAGTTTGAGGGGGCCGCCATCTTGGTCCCAGCTCTCCACGTCTCCAACC
CCGGGCTCGGCGGGCGGGCCAGGTCCCTGCTGAATCACACGCCGCCATCCGGGAGGCCCAGGGAAGGTGCAATG
GATGAGCTTCATAGTCTGGATCCAAGAAGGCAAGAGTTATTGGAAGCTAGATTTACTGGAGTTGCAAGTGGGAGC
ACTGGAAGTACGGGCAGTTGCAGTGTTGGTGCTAAAGCCACAACAAATAACGAAAGCTCTAATCACAGTTTTGGA
AGCTTGGGATCTTTAAGTGACAAAGAATCAGAGACACCGGAGAAGAAACAATCGGAATCATCCAGGGGAAGAAAG
AGAAAAGCAGAAAACCAGAATGAAAGTAGTCAGGGAAAAAGTATTGGGGGACGTGGCCACAAAATTAGCGACTAT
TTTGAATACCAGGGTGGAATGGCTCAAGTCCAGTAAGAGGCATACCTCCTGCAATCCGTTCTCCTCAAAATTCA
CATTACATTCCACTCCTTCTCATCTGTTGACCGAATAGCCCTTCTCCTACTGCATTAGCATTTGGGGACCAC
CCTATTGTACAACCAAGCAATTATCCTTTAAAAATTATTGAGACTGATCTCACAATGCTGAAATTAGCAGCATT
GAAAGTAATAAAATCCAGGACCTGGAAGAAGGAGGGACGTATAGATGATTTGCTCAGGGCTAACTGTGATCTC
AGACGGCAAATAGATGAACAACAAAAATTACTTGAAAAATACAAAGAACGATTAAATAAGTGCATATCAATGAGC
AAGAACTTCTTATTGAAAAGAGTACACAAGAAAAGCTGTCAAGCAGAGAGAAGAGTATGCAAGATCGATTACGC
CTCGGGCACTTTACAACAGTTAGACATGGCGCTTCATTTACTGAACAATGGACAGATGGTTTTGCATTTCAGAAT
CTTGTAAGCAACAAGAATGGGTGAATCAGCAAAGGGAAGATATTGAAAGGCAAAGGAACTTCTAGCCAAACGC
AAACCTCCCACAGCTAATAATTCTCAGGCACCTCTACCAATTCTGAACCAAAACAAAGGAAAAACAAAGCAGTC
AATGGAGCAGAGAATGATCCCTTTGTTAGACCAAAATTACCACAACCTGTTGACTTTGGCAGAATATCATGAACAG
GAAGAAATTTTCAAACCTAGACTAGGACATCTCAAAAAGGAAGAGGCAGAAATCCAGGCAGAACTTGAACGTTTG
GAAAAGAGTCAGAAATCTTACATACGTGAGCTGAAAAAGAATAAACAATGAAGATAATTCACAGTTCAAAGATCAC
CCAACATTAAATGAAAGATATTTATTACTTCATCTGCTTGGTAGAGGTGGCTTTAGTGAAGTGTATAAGGCTTTT
GACCTTTATGAACAAAGATATGCTGCTGTGAAGATACATCAGCTTAATAAAAGCTGGAGAGATGAGAAGAAAGAA
AACTACCACAAACATGCCTGCAGAGAGTATAGAATACACAAAGAAGCTGGATCACCCAGAAATAGTTAAACTCTAT
GATTATTTCTCCTTGATACAGATACGTTTTGTACAGTGTTAGAATACTGTGAAGGCAATGACTTGGATTCTAT
CTGAAGCAACACAAGTTAATGTCAGAGAAAGAAGCTCGGTCTATTGTAATGCAGATTGTAAATGCACTAAGATAT
CTCAATGAGATCAAACCCCTATTATACATTATGATCTTAAGCCAGGAAACATCCTACTGGTAGATGGAACAGCA
TGTGGTGAAATCAAATCACTGATTTTGGTCTGTCCAAGATTATGGATGATGATAGCTATGGTGTAGATGGAATG
GATCTAACTTCCCAGGGGGCAGGCACCTACTGGTATTTACCTCCTGAGTGTTTTGTAGTTGGAAGAGCCACCA
AAGATTTCCAACAAGTTGATGTATGGTCGGTTGGAGTCATCTTCTTTCAGTGTCTTTATGGTAGAAAGCCATTT
GGTCACAATCAATCTCAACAAGACATTCTTCAAGAAAATACAATATTAAAGCCACAGAAGTCCAGTTCCCTGTA
AAACCGTTGTAAGCAGTGAAGCCAAGGCATTTATAAGACGCTGTTTGGCATATCGAAAAGAAGATCGATTTGAT
GTGCACCAGCTGGCAAATGACCCATACCTTCTCCACACATGAGAAGATCAAATCTTCAGGAAACCTACACATG
GCTGGGCTGACAGCATCCCCTACACCCCTTCTTCAAGCATAATTACTTACTGACTTTTCTCCAAGATTGGCATG
ATATCTTTGAATTTGCTTCCAGATGCACACTTAAGTTTGAGAGCATTGAGTGTTTGTCTTTCTTTTTTTTTT
TTTTTTTTTTTTTTTTTACACAAGACGTGGTTAAAGAACTGTTTGTGACTGAAGTTCTCATAGTGTCAATTGGTAT
GAGAGAGGATCATGGACAATGAATAAATGCACACTTCTGACTATAATTTTGAGCAGTGAAGGAAGGATGACTGCC
TGTTACACAGAAACAGGAATACCATGTTAAGATAGAGGAAAAAAAAAAAA

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FIGURE 548

MSVQSSSGSLEGPPSWSQLSTSPTPGSAAAAARSLNHTPPSGRPREGAMDELHSLDPRRQELLEAREFTGVASGST
GSTGSCSVGAKASTNNNESSNHSFGSLESLSKESETPEKKQSESSRGRKRKAENQNESSQGFPNLPVVFQSLAYWE
MGRTAGGKSIGGRGHKISDYFEYQGGNGSSPVRGIPPAIRSPQNSHSHSTPSSSVRPNSPSPALAFGDHP IVQP
KQLSFKIIQTDLTMLKLAALLESNKIILDLEKKEGRIDDLRANCDLRRQIDEQQKLLDKYKERLNKCISMSKKLLI
EKSTQEKLSREKSMQDRLRLGHFTTVRHGASFTEQWTDGFQNLVKQEQEWNQOREDIERQRKLLAKRKPPTA
NNSQAPSTNSEPKQRKNKAVNGAENDPFVRPNLPQLLTLAEYHEQEEIFKLRLGHLKKEEAGIQAELERLERVRN
LHIRELKRIHNEDNSQFKDHPTLNERYLLHLLGRGGFSEVDKAFDLSEQRYAAVKIHQLNKS WRDEKKENYHKK
ACREYRIHKELDHPRIVKLYDYFSLD TDFCTVLEYCEGNDLDFY LKQHKLMSEKEARSIVMQIVNALRYLNEIK
PPIIH YDLKPGNILLVDGTACGEIKITDFGLSKIMDDSYGVDGMVLTSQGAGTYWYLPPECFVVGKEPPKISNK
VDVWSVG VIFYQCLYGRKPF GHNQSQQDILQENTILKATEVQFPVKPVVSSEAKAFIRCLAYRKEDRF DVHQLA
CDPYLLPHMRRSNSSGNLHMAGLTASPTPPSSSIITY

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FIGURE 549

TCGGCCGAGCCCAGAGACAGCCAGTTCTCTCCCGCCGCGCCGGGCCGCGTGCCGCTCGCTCCCCGGCCCGTGGCG
CCTCCGGGCCAGACGCGCTGCAGCCTCCAGCCCCGCGGCAAGCGGGCGGGGCGGCCGCGCCACCCCCGGCCCCGCG
CCAGCAGCCCCCTCGCCGCGCGTCCAGCGTTCCCGGCCAGCAGCCTCCCCATACGCAGTCTGCTGGACCGCCCCG
TCGCGCCCCCCTCTGAAGTCAAGTCACCGTGGAGCTCCGCCGCCCGAAACTTTACGCGAGCGGGAAATATG

GGATGTATAAAATCAAAAGGGAAAGACAGCTTGAGTGACGATGGAGTAGATTTGAAGACTCAACCAGTACGTAAT
ACTGAAAGAACTATTTATGTGAGAGATCCAACGTCCAATAAACAGCAAAGGCCAGTTCCAGAATCTCAGCTTTTA
CCTGGACAGAGGTTTTCAAATAAGATCCAGAGGAACAAGGAGACATTGTGGTAGCCTTGTAACCCCTATGATGGC
ATCCACCCGACGACTTGCTTTCAAGAAAGGAGAGAAGATGAAAGTCTTGAGGAGCATGGAGAATGGTGGAAA
GCAAAGTCCCTTTTAACAAAAAAGAAGGCTTCATCCCCAGCAACTATGTGGCCAAACTCAACACCTTAGAAACA
GAAGAGTGGTTTTTCAAGGATATAACCAGGAAGGACGCAGAAAGGCAGCTTTTGGCACCAGGAAATAGCGCTGGA
GCTTTCCTTATTAGAGAAAGTGAACATTTAAAGGAAGCTTCTCTCTGTCTGTCTGTCAGAGACTTTGACCCCTGTGCAT
GGTGATGTTATTAAGCACTACAAAATTAGAAGTCTGGATAATGGGGGCTATTACATCTCTCCACGAATCACTTTT
CCCTGTATCAGCGACATGATTAAACATTACCAAAAGCAGGCAGATGGCTTGTGCAGAAGATTGGAGAAGGCTTGT
ATTAGTCCCAAGCCACAGAAGCCATGGGATAAAGATGCCTGGGAGATCCCCGGGAGTCCATCAAGTTGGTGAAA
AGGCTTGGCGCTGGGCAGTTTGGGGAAGTCTGGATGGGTTACTATAACAACAGTACCAAGGTGGCTGTGAAAACC
CTGAAGCCAGGAAGTATGTCTGTGCAAGCCTTCTGGAAGAAGCCAACCTCATGAAGACCCTGCAGCATGACAAG
CTCGTGAGGCTCTACGCTGTGGTCACCAGGGAGGAGCCCCATTTACATCATCACCGAGTACATGGCCAAGGGCAGT
TTGCTGGATTTCTGAAGAGCGATGAAGGTGGCAAAGTGCTGCTTCCAAAGCTCATTGACTTTTTCTGCTCAGATT
GCAGAGGGAATGGCATACATCGAGCGGAAGAACTACATTCACCGGGACCTGCGAGCAGCTAATGTTCTGGTCTCC
GAGTCACTAATGTGCAAAATTGCAGATTTTGGCCTTGCTAGAGTAATTGAAGATAATGAGTACACAGCAAGGGAA
GGTGCTAAGTTCCTATTAAGTGGACGGCTCCAGAAGCAATCAACTTTGGATGTTTCACTATTAAGTCTGATGTG
TGGTCCTTTGGAAATCCTCCTATACGAAATTGTACCTATGGGAAAATTCCCTACCCAGGGAGAACTAATGCCGAC
GTGATGACCGCCCTGTCCCAGGGCTACAGGATGCCCCGTGTGGAGAAGTCCCAGATGAGCTCTATGACATTATG
AAAATGTGCTGGAAAGAAAAGGCAGAAGAGAGACCAACGTTTGACTACTTACAGAGCGTCTGGATGATTTCTAC
ACAGCCACGGAAGGGCAATACCAGCAGCAGCCTTTAGAGCACAGGGAGACCCGTCCATTTGGCAGGGGTGGCTGCC
TCATTTAGAGAGGAAAAGTAACCATCACTGGTTGCACCTTATGATTTTATGTGCGGGATCATCTGCCGTGCCCTGG
ATCCTGAAATAGAGGCTAAATTACTCAGGAAGAACACCCCTCTAAATGGGAAAGTATTCTGTACTCTTAGATGGAT
TCTCCACTCAGTTGCAACTTGGACTTGTCTCAGCAGCTGGTAATCTTGCTCTGCTTGACAACATCTGAGTGCAG
CCGTTTGAGAAGAAAACATCTATTCTCTCCAAAAATGCACCCAACTAGCTCTATGTTTACAAATGGACATAGGAC
TCAAAGTTTCAGAGACCATTGCAATGAATCCCCAATAATTGCAGAACTAACTCATTATATAAAGCTAAAAATAACC
GGATATATACATAGCATGACATTTCTTTGTGCTTTGGCTTACTTGTTT

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FIGURE 550

MGCIKSKGKDSLSDDGVDLKTQPVNRNTERTIYVRDPTSNKQQRVPESQLLPQGRFQTKDP EEQGDIVVALYPYD
GIHPDDL SFKKGEKMKVLEEHGEWWKAKSL LTKKEGFIPSNYVAKLNTLETEWFFKDITRKDAERQL LAPGNSA
GAFLIRESETLKGSFSLSVRDFDPVHGDVIKHYKIRSLDNGGYYISPRITFPCISDMIKHYQKQADGLCRRLEKA
CISPKPQKPWDKDAWEIPRESIKLVKRLGAGQFGEVWVMGYNNSTKVAVKTLKPGTMSVQAFLEEANLMKTLQHD
KLVRLYAVVTREEPIYIITEYMAKGSLLDFLKSDEGGKVLLPKLIDFSAQIAEGMAYIERKNYIHRDLRAANVLV
SESLMCKIADFGLARVIEDNEYTAREGAKFPIKWTAPEAINFGCFTIKSDVWSFGILLYEIVTYGKIPYPGRNA
DVMTALSQGYRMPRVENCPELYDIMKMCWKEKAEERP TFDYLQSVLDDFYTATEGQYQQQP

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FIGURE 551

GAATTCTGCAGCTCAGCAGCCGCCGAGCAGGACGAACCGCCAATCGCAAGGCACCTCTGAGAACTTCAGG
ATGCAGATGTCTCCAGCCCTCACCTGCCTAGTCCTGGGCCTGGCCCTTGTCCTTTGGTGAAGGGTCTGCTGTGCAC
CATCCCCCATCCTACGTGGCCACCTGGCCTCAGACTTCGGGGTGAGGGTGTTTCAGCAGGTGGCGCAGGCCCTCC
AAGGACCGCAACGTGGTTTTCTCACCTATGGGGTGCCCTCGGTGTTGGCCATGCTCCAGCTGACAACAGGAGGA
GAAACCCAGCAGCAGATTCAAGCAGCTATGGGATTCAAGATTGATGACAAGGGCATGGCCCCCGCCCTCCGGCAT
CTGTACAAGGAGCTCATGGGGCCATGGAACAAGGATGAGATCAGCACCACAGACGCGATCTTCGTCCAGCGGGAT
CTGAAGCTGGTCCAGGGCTTCATGCCCCACTTCTTCAGGCTGTTCCGGAGCACGGTCAAGCAAGTGGACTTTTCA
GAGGTGGAGAGAGCCAGATTTCATCATCAATGACTGGGTGAAGACACACAAAAGGTATGATCAGCAACTTGCTT
GGGAAAGGAGCCGTGGACCAGCTGACACGGCTGGTGTGATGCCCTCTACTTCAACGGCCAGTGGAAGACT
CCCTTCCCCGACTCCAGCACCCACCGCCGCTCTTCCACAAATCAGACGGCAGCACTGTCTCTGTGCCCATGATG
GCTCAGACCAACAAGTTCAACTATACTGAGTTCAACCACGCCCGATGGCCATTACTACGACATCCTGGAAGTGCCC
TACCACGGGGACACCCTCAGCATGTTTATTGCTGCCCTTATGAAAAGAGGTGCCTCTCTGTGCCCTCACCAAC
ATTCTGAGTGCCAGCTCATCAGCCACTGGAAAGGCAACATGACCAGGCTGCCCCGCTCCTGGTTCTGCCAAG
TTCTCCCTGGAGACTGAAGTCGACCTCAGGAAGCCCTAGAGAACCTGGGAATGACCGACATGTTTCAGACAGTTT
CAGGCTGACTTCACGAGTCTTTCAGACCAAGAGCCTCTCCACGTCGCGCAGGCGCTGCAGAAAGTGAAGATCGAG
GTGAACGAGAGTGGCACGGTGGCCTCCTCATCCACAGCTGTCATAGTCTCAGCCCGCATGGCCCCCGAGGAGATC
ATCATGGACAGACCCTTCTCTTTGTGGTCCGGCACAAACCCACAGGAACAGTCCTTTTTCATGGGCCAAGTGATG
GAACCC**TGA**CCCTGGGGAAAGACGCCTTCATCTGGGACAAAACCTGGAGATGCATCGGGAAAGAAGAAACTCCGAA
GAAAAGAATTTTAGTGTTAATGACTCTTTCTGAAGGAAGAGAAGACATTTGCCTTTTGTAAAGATGGTAAACC
AGATCTGTCTCCAAGACCTTGGCCTCTCCTTGGAGGACCTTTAGGTCAAACCTCCCTAGTCTCCACCTGAGACCCT
GGGAGAGAAGTTTGAAGCACAACCTCCCTTAAGGTCTCCAAACCAGACGGTGACGCCTGCGGGACCATCTGGGGCA
CCTGCTTCCACCCGTCTCTCTGCCCACTCGGGTCTGCAGACCTGGTTCCCACTGAGGCCCTTTGCAGGATGGAAC
TACGGGGCTTACAGGAGCTTTTGTGTGCTGGTAGAACTATTTCTGTTCCAGTCACATTGCCATCACTCTTGTA
CTGCCTGCCACCGCGGAGGAGGCTGGTGACAGGCCAAAGGCCAGTGGAAGAAACACCCTTTTCATCTCAGAGTCCA
CTGTGGCACTGGCCACCCCTCCCCAGTACAGGGGTGCTGCAGGTGGCAGAGTGAATGTCCCCCATCATGTGGCCC
AACTCTCCTGGCCTGGCCATCTCCCTCCCCAGAAACAGTGTGCATGGGTTATTTTGGAGTGTAGGTGACTTGTTT
ACTCATTGAAGCAGATTTCTGCTTCCTTTTATTTTATAGGAATAGAGGAAGAAATGTCAGATGCGTGCCAGCT
CTTACCCCCCAATCTCTTGGTGGGGAGGGGTGTACCTAAATATTTATCATATCCTTGCCCTTGAGTGCTTGTTA
GAGAGAAAGAGAACTACTAAGGAAAATAATATTATTTAACTCGCTCCTAGTGTTTCTTTGTGGTCTGTGTCACC
GTATCTCAGGAAGTCCAGCCACTTGACTGGCACACACCCCTCCGACATCCAGCGTGACGGAGCCACACTGCCA
CCTTGTGGCCGCTGAGACCCTCGCGCCCCCGCGCCCCCGCGCCCTCTTTTTCCCTTGATGGAAATTGACC
ATACAATTTTCATCCTCCTTCAGGGGATCAAAAGGACGGAGTGGGGGGACAGAGACTCAGATGAGGACAGAGTGGT
TTCCAATGTGTTCAATAGATTTAGGAGCAGAAATGCAAGGGGCTGCATGACCTACCAGGACAGAACTTTCCCCAA
TTACAGGGTGACTCACAGCCGCTTGGTGACTCACTTCAATGTGTCAATTCGGGCTGCTGTGTGTGAGCAGTGGA
CACGTGAGGGGGGGGTGGGTGAGAGAGACAGGCAGCTCGGATTCAACTACCTTAGATAATATTTCTGAAAACCTA
CCAGCCAGAGGGTAGGGCACAAAGATGGATGTAATGCACTTTGGGAGGCCAAGGCGGGAGGATTGCTTGAGCCCA
GGAGTTCAAGACCAGCCTGGGCAACATACCAAGACCCCGTCTCTTTAAAATATATATATTTTAAATATACTTA
AATATATATTTCTAATATCTTTAAATATATATATATATTTTAAAGACCAATTTATGGGAGAATTGCACACAGATG
TGAAATGAATGTAATCTAATAGAAGC

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FIGURE 552

MQMSPALTCLVLGLALVFGESAVHHPPSYVAHLASDFGVRVFQQVAQASKDRNVVFSPYGVASVLAMLQLTTGG
ETQQQIQAAAMGFKIDDKGMAPALRHLYKELMGPWNKDEISTTDAIFVQRDLKLVQGFMPhFFRLFRSTVKQVDFS
EVERARFIINDWVKTHTKGMISNLLGKGAVDQLTRLVLVNALYFNGQWKTPFPDSSTHRRLFHKSDGSTVSVPM
AQTNKFNYTEFTTPDGHYYDILELPYHGDTLMSFIAAPYEKEVPLSALTNILSAQLISHWKGNMTRLPRLLVLPK
FSLETEVDLRKPLENLGMTDMFRQFQADFTSLSDQEPLHVAQALQVKIEVNESGTVASSSTAVIVSARMAPEEI
IMDRPFLEFVVRHNPTGTVLFMGQVMEP

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FIGURE 553

CTTCGGTCCTGCTGTAGTGCCTTCTGCGCCAGGCCCGGTTCAATCAGCGGCCACAACCTGTCTAGGGCTCAGACAC
CACCAGCCAATGAGGGAGGGCACGTGGAGCCGCGTCTGGGCTCGCGGCTCCTGACCAATGGGGGAAGTGGCATGTG
GGAGGGCGCCGGGGTTCCCCCGCCAATGGGGAGCTACGGCGCGCGGCCGGGACTTGAGAGCGGTGCGGCGCGGC
GGGTGCGGTTTCACTCGGTTCGGCGGCGGCAGCGGAGGAGGAGGAGGAGGAGGAGGATGAGGAGGATGAGGAGGATG
TGGGCCACGCAGGGGCTGGCGGTGCGCGTGGCTCTGAGCGTGCTGCCGGGCAGCCGGGCGCTGCGGCCGGGCGAC
TGCGAAGTTTGTATTTCTTATCTGGGAAGATTTTACCAGGACCTCAAAGACAGAGATGTCACATTCTCACCAGCC
ACTATTGAAAACGAACTTATAAAGTTCTGCCGGAAGCAAGAGGCCAAAGAGAATCGGTTGTGCTACTATATCGGG
GCCACAGATGATGCAGCCACCAAAATCATCAATGAGGTATCAAAGCCTCTGGCCCACCACATCCCTGTGGAGAAG
ATCTGTGAGAAGCTTAAGAAGAAGGACAGCCAGATATGTGAGCTTAAGTATGACAAGCAGATCGACCTGAGCACA
GTGGACCTGAAGAAGCTCCGAGTTAAAGAGCTGAAGAAGATTCTGGATGACTGGGGGGAGACATGCAAAGGCTGT
GCAGAAAAGTCTGACTACATCCGGAAGATAAATGAACTGATGCCTAAATATGCCCCAAGGCAGCCAGTGCACCG
ACCGATTTGTAGTCTGCTCAATCTCTGTTGCACCTGAGGGGGAAAAACAGTTCAACTGCTTACTCCCAAAACAG
CCTTTTTGTAATTTATTTTTTAAAGTGGGCTCCTGACAATACTGTATCAGATGTGAAGCCTGGAGCTTTCCTGATG
ATGCTGGCCCTACAGTACCCCATGAGGGGATTCCCTTCCTTCTGTTGCTGGTGTACTCTAGGACTTCAAAGTGT
GTCTGGGATTTTTTTTATTAAAGAAAAAAAATTCTAGCTGTCAAAAAAAAAA

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FIGURE 554

MGKWHVGGRRGSPRQWGATARGRDLEAVRRGGCGSVGRRRQRRRRRRRRMRRMRMWATQGLAVRVALSVLPGSR
ALRPGDCEVCISYLGRFYQDLKDRDVTFSPATIENELIKFCREARGKENRLCYIIGATDDAATKIINEVSKPLAH
HIPVEKICEKLKKKDSQICELKYDKQIDLSTVDLKKLRVKELKKILDDWGETCKGCAEKSDYIRKINELMPKYAP
KAASAPTDL

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FIGURE 555

AGCAGAGGACTTTTTAGCTGCTCACTGGCCCCGCTTGTCTGACCGACTCATCCGCCCCGCGACCCCTAATCCCCTC
TGCTTGCCCCAAG**ATG**CTGAAGCCAGCCCTGGAGCCCCGAGGGGGCTTCTCCTTCGAGAACTGCCAAAGAAATGC
ATCATTGGAACGCGTCCTCCCGGGGCTCAAGGTCCCTCACGCACGCAAGACCGGGACCACCATCGCGGGCCTGGT
GTTCCAAGACGGGGTCATTCTGGGCGCCGATACGCGAGCCACTAACGATTTCGGTCGTGGCGGACAAGAGCTGCGA
GAAGATCCACTTCATCGCCCCAAAATCTACTGCTGTGGGGCTGGAGTAGCCGCGGACGCCGAGATGACCACACG
GATGGTGGCGTCCAAGATGGAGCTACACGCGTTATCTACGGGCCGCGAGCCCCGCGTGGCCACGGTCACTCGCAT
CCTGCGCCAGACGCTCTTCAGGTACCAGGGCCACGTGGGTGCATCGCTGATCGTGGGCGGGCTAGACCTGACTGG
ACCGCAGCTCTACGGCGTGCATCCCCATGGCTCCTACAGCCGTCTGCCCTTCACAGCCCTGGGCTCTGGTCAGGA
CGCGGCCCTGGCGGTGCTAGAAGACCGGTTCCAGCCGAACATGACGCTGGAGGCTGCTCAGGGGCTGCTGGTGGA
AGCCGTCACCGCCGGGATCTTGGGTGACCTGGGCTCCGGGGGCAATGTGGACGCATGTGTGATCACAAAGACTGG
CGCCAAGCTGCTGCGGACACTGAGCTCACCCACAGAGCCCGTGAAGAGGTCTGGCCGCTACCACTTTGTGCCTGG
AACCACAGCTGTCCTGACCCAGACAGTGAAGCCACTAACCTGGAGCTAGTGGAGGAACTGTGCAGGCTATGGA
GGTGGAG**TAA**GCTGAGGCTTAGAGCTTGGAACAAGGGGAATAAACCCAGAAAATACAGTTAAAAAAAAAAAAAA
CAAAAAAAAAAAAAAAAAAAAA

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FIGURE 556

MLKPALEPRGGFSFENCQRNASLERVLPGLKVPHARKTGTTIAGLVFQDGVILGADTRATNDSVVADKSCEKIH
IAPKIYCCGAGVAADAEMTTRMVASKMELHALSTGREPRVATVTRILRQTLFRYQGHVGASLIVGGVDLTGPQLY
GVHPHGSYSRLPFTALGSGQDAALAVLEDRFQPNMTLEAAQGLLVEAVTAGILGDLGSGGNVDACVITKTGAKLL
RTLSSPTEPVKRSGRYHFVPGTTAVLTQTVKPLTLELVEETVQAMEVE

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FIGURE 557

CGGAGCCGCCCGCTGAGGTCAGAAGGAGGCGTCTGCGCTGATCGGGTCCGCCGCGGCCAGAGCCAGAGTCGCAG
CCGAGGGGAGCCGGGGCCGGAGCCCGAGCCCGAGCCGAGCCGAGCCGAGCGAGCGGGCGGAGACCGTGCCCCG
CCTCGGCCCCGCGCCGCCGCGGCCAGGCCCCGGC**ATCG**GAGGAGGAGTGCCGGGTGCTCTCCATACAGAGCCACGTC
ATCCGCGGCTACGTGGGCAACCGGGCGGCCACGTTCCCGCTGCAGGTTTTTGGGATTTGAGATTGACGCGGTGAAC
TCTGTCCAGTTTTCAAACCACACAGGCTATGCCCCACTGGAAGGGCCAAGTGCTGAATTCAGATGAGCTCCAGGAG
TTGTACGAAGGCCTGAGGCTGAACAACATGAATAAATATGACTACGTGCTCACAGGTTATACGAGGGACAAGTCG
TTCCTGGCCATGGTGGTGGACATTGTGCAGGAGCTGAAGCAGCAGAACCCAGGCTGGTGTACGTGTGTGATCCA
GTCTTGGGTGACAAGTGGGACGGCGAAGGCTCGATGTACGTCCCGGAGGACCTCCTTCCCGTCTACAAAGAAAA
GTGGTGCCGCTTGACAGACATTATCACGCCCAACCAAGTTTGAGGCCGAGTTACTGAGTGGCCGGAAGATCCACAGC
CAGGAGGAAGCCTTGCGGGTGATGGACATGCTGCACTCTATGGGCCCCGACACCGTGGTCATCACCAGCTCCGAC
CTGCCCTCCCCGCAGGGCAGCAACTACCTGATTGTGCTGGGGAGTCAGAGGAGGAGGAATCCCGCTGGCTCCGTG
GTGATGGAACGCATCCGGATGGACATTCGCAAAGTGGACGCCGTCTTTGTGGGCACTGGGGACCTGTTTGCTGCC
ATGCTCCTGGCGTGGACACACAAGCACCCCAATAACCTCAAGGTGGCCTGTGAGAAGACCGTGTCTACCTTGCAC
CACGTTCTGCAGAGGACCATCCAGTGTGCAAAAGCCCAGGCCGGGGAAGGAGTGAGGCCAGCCCCATGCAGCTG
GAGCTGCGGATGGTGCAGAGCAAAAGGGACATCGAGGACCCAGAGATCGTCGTCCAGGCCACGGTGCTG**TGAGGG**
CCCCGCCGCTTGCCCGTGACACGCAGCGCGTTGGTGTCTCCGTGTTTGTCCCTGTGAAAACATGTAACGTCTGCC
TTAGAGCCATGACCGAACTTGATATTTTTTTCTTTCATGAGTGTCGGCATCTGCTGGTCTTCATTGTGAAACG
TGCCAGTCGTGCTTTGTGAAAATAACAAAGTGGTCACAAAAAAAAAAAAAAAAAAAA

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FIGURE 558

MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKQVLNSDELQELYEGLRLNNMN
KYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVVPLADIITPN
QFEAELLSGRKIHQSQEEALRVMDMLHSMGPDTVVITSSDLPS PQGSNYLIVLGSQRRRNPA GSVVMERIRMDIRK
VDAVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDI
EDPEIVVQATVL

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FIGURE 559

GCAGCCAGGCGCGCACTGCACAGCTCTCTTCTCTCGCCGCCGCCGAGCGCACCCCTTCAGCCCGCGCGCCGCCG
TGAGTCCTCGGTGCTCGCCCGCCGGCCAGACAAACAGCCCGCCCGACCCCGTCCCGACCCCTGGCCGCCCCGAGCG
GAGCCTGGAGCAAAATGATGCTTCAACACCCAGGCCAGGTCTCTGCCTCGGAAGTGAGTGCTTCTGCCATCGTCC
CCTGCCTGTCCCTCCTGGGTCACTGGTGTGTTGAGGATTTTGCTAACCTGACGCCCTTTGTCAAGGAAGAGCTGA
GGTTTGCCATCCAGAACAAGCACCTCTGCCACCGGATGTCTCTGCGCTGGAATCAGTCACTGTTCAGCGACAGAC
CCCTCGGGGTGTCCATCACAAAAGCCGAGGTAGCCCCCTGAAGAAGATGAAAGGAAAAAGAGGCGACGAGAAAGAA
ATAAGATTGCAGCTGCAAAGTGCCGAAACAAGAAGAAGGAGAAGACGGAGTGCTTCAGCTTCAGTATTAGCAGA
GCCACAGGCCCGCTCTGTGGCATCACAGGGTTTCTCTGAAGAAGAGGGTCTGCATTTTCTAAACCCAGTGCTG
CTCTCCCATCTCCCATCTTCTCTCGCAGCTTGATGAGCCCCGGTGTGTCCAGGAGTCGGAGAAGCTGGAAAGT
GTGAATGCTGAAGTGAAGGCTCAGATTGAGGAGCTCAAGAACGAGAAGCAGCATTGATATACATGCTCAACCTT
CATCGGCCACGTGTATTGTCCGGGCTCAGAATGGGAGGACTCCAGAAGATGAGAGAAACCTCTTTATCCAACAG
ATAAAGAAGGAACATTGCAGAGCTAAGCAGTCGTGGTATGGGGGCGACTGGGGAGTCCTCATTGAATCCTCATT
TTATACCCAAAACCTGAAGCCATTGGAGAGCTGTCTTCTGTGTACCTCTAGAATCCAGCAGCAGAGAACCAT
CAAGGCGGGAGGGCCTGCAGTGATTCAGCAGGCCCTTCCCATTCTGCCCCAGAGTGGGTCTTGGACCAGGGCAAG
TGCATCTTTGCCTCAACTCCAGGATTTAGGCCTTAACACACTGGCCATTCTTATGTTCCAGATGGCCCCCAGCTG
GTGTCTGCCCCGCTTTTCATCTGGATTCTACAAAAAACAGGATGCCACCGTTAGATTTCAGGCAGCAGTGCTG
TACCTCGGGTGGGAGGGATGGGGCCATCTCCTTCACCGTGGCTACCATTGTCACTCGTAGGGGATGTGGAGTGAG
AACAGCATTTAGTGAAGTTGTGCAACGGCCAGGGTTGTGCTTTCTAGCAAATATGCTGTTATGTCCAGAAATTGT
GTGTGCAAGAAAAGTAGGCAATGTACTCTTCCGATGTTTGTGTACACAACTGATGTGACTTTTATATGCTTT
TTCTCAGATCTGGTTTCTAAGAGTTTTGGGGGGCGGGGCTGTCACCACGTGCAGTATCTCAAGATATTCAGGTGG
CCAGAAGAGCTTGTTCAGCAAGAGGAGGAACAGAATTCTCCCAGCGTTAACACAAAATCCATGGGCAGCATGATGG
CAGGTCTCTGTGTCAACTCAGTTCCAAAGTCACAGGAAGAAAGCAGAAAGTTCAACTTCCAAAGGGTTAGGAC
TCTCCACTCAATGTCTTAGGTCAGGAGTTGTGTCTAGGCTGGAAGAGCCAAAGAAATATTCCATTTTCTTTCT
TGTGGTTGAAACCACAGTCAGTGGAGAGATGTTTGGAAACACAGTCAGTGGAGCTGGTGGTACCAGGTTTAGCATT
ATTGGATGTCAAAAGCATTTTTTTTTGTTCATGTAGCTGTTTAAAGAAATCTGGCCAGGGTGTGTCAGCTGTGAG
AAGTCACTCACACTGGCCACAAGGACGCTGGCTACTGTCTATTAAATTTCTGATGTTTCTGTGAAATTCTCAGAG
TGTTTAATTGTACTCAATGGTATCATTACAATTTCTGTAAGAGAAAATATTACTTATTTATCCTAGTATTCCTA
ACCTGTCAGAATAATAAATATTGTGGTAAAA

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FIGURE 560

MMLQHPPGQVSASEVSASAIVPCLSPPGSLVFEDFANLTPFVKEELRFAIQNKHLCHRMSSALESVTVSDRPLGVS
ITKAEVAPFEEDERKKRRRERNKIAAAKCRNKKKEKTECLQLQY

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FIGURE 561

GGCCTCCCACTTGGTTGCTCGTACGCGGCTAGTGGGTCCTCAGTGGATGTAGGCTGGGCGCCGCGATGTTTCGACG
GGACACCGGCGGAGAGCGACCTCGGGGTAAAGGGTGGGGCTGGACGTCAGGAGCCAAGATGGCGGCGGTGCTCG
CACTCTCCTTGAGGCGCCGGTTGCCGGCCACAACCCTTGGCGGAGCCTGCCTGCAGGCCTCCCGAGGAGCCCAGA
CAGCTGCAGCCACAGCTCCCCGTATCAAGAAATTTGCCATCTATCGATGGGACCCAGACAAGGCTGGAGACAAAC
CTCATATGCAGACTTATAAGGTTGACCTTAATAAATGTGGCCCCATGGTATTGGATGCTTTAATCAAGATTAAGA
ATGAAGTTGACTCTACTTTGACCTTCCGAAGATCATGCAGAGAAGGCATCTGTGGCTCTTGTGCAATGAACATCA
ATGGAGGCAACACTCTAGCTTGCACCCGAAGGATTGACACCAACCTCAATAAGGTCTCAAAAATCTACCTCTTC
CACACATGTATGTGATAAAGGATCTTGTTCCCGATTTGAGCAACTTCTATGCACAGTACAAATCCATTGAGCCTT
ATTTGAAGAAGAAGGATGAATCTCAGGAAGGCAAGCAGCAGTATCTGCAGTCCATAGAAGAGCGTGAGAACTGG
ACGGGCTCTACGAGTGCATTCTCTGTGCCTGCTGTAGCACCAGCTGCCCCAGCTACTGGTGGAACGGAGACAAAT
ATCTGGGGCCTGCAGTTCTTATGCAGGCCTATCGCTGGATGATTGACTCCAGAGATGACTTCACAGAGGAGCGCC
TGGCCAAGCTGCAGGACCCATTCTCTCTATACCGCTGCCACACCATCATGAACTGCACAAGGACCTGTCCTAAGG
GTCTGAATCCAGGGAAAGCTATTGCAGAGATCAAGAAAATGATGGCAACCTATAAGGAGAAGAAAGCTTCAGTTT
AACTGTTTCCATGCTAAACATGATTTATAACCAGCTCAGAGCTGAACATAATTTATATCTAATTTGAGTTCCTTT
AAAGATCTTGGTTTTCCATGAATACAGCATGTATAATAAAAATTTTAAGA

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FIGURE 562

MAAVVALSLRRRLPATTLGGACLQASRGATAAATAPRIKKFAIYRWDPDKAGDKPHMQTYKVDLNKCGPMVLDA
LIKIKNEVDSTLTFRREGICGSCAMNINGGNTLACTRRIDTNLNKVS KIYPLPHMYVIKDLVPDLSNFYAQY
KSIEPYLKKKDESGEGKQYQLQSIEEREKLDGLYECILCACCSTSCPSYWWNGDKYLGPVLMQAYRWMIDSRDD
FTEERLAKLQDPFSLYRCHTIMNCTRTPKGLNPGKAIAEIKMMATYKEKKASV

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FIGURE 563

CCAGAGCCGCAGCCGCAGCCGCCGCTACAGTCCGGGCCGGGCTCCACCGCGCATCCTGCTCCACTCTGGCGACCG
CCCCCGGGGTCCCCGCCGCGGGCGCGGCCCGCC**CATGGG**CGAGGAGGACTACTATCTGGAGCTGTGCGAGCGGC
CGGTGCAGTTCGAGAAGGCCGAACCTGTCAACTGCGTCTTCTTCGATGAGGCCAACAAGCAGGTTTTTGCTGTTT
GATCTGGTGGAGCTACTGGCGTGGTAGTTAAAGGCCCAGATGATAGGAATCCCATCTCATTTAGAATGGATGACA
AAGGAGAAGTGAAGTGCATTAAGTTTTCTTAGAAAAATAAGATATTGGCTGTTTCAGAGGACCTCAAAGACTGTGG
ATTTTTGTAATTTTATCCCTGATAATTCCCAGCTGGAATACACACAGGAGTGCAAGACTAAGAATGCCAACATT
TAGGATTCTGCTGGACTAGTTCAACTGAAATTGTCTTCATAACAGATCAAGGAATCGAATTTTACCAGGTATTAC
CAGAGAAACGGAGTCTGAAACTCTTGAAGAGCCACAATCTCAATGTGAATTGGTACATGTACTGCCCCGAGCGCG
CCGTGATCTTGCTGTCTACCACGGTCTCGGAGAATGTCTGCAGCCTTTTCACTTTAGGGCTGGCACTATGTCGA
AGCTGCCCCAAGTTTGAGATTGAATTACCAGCTGCGCCTAAGTCAACTAAACCCAGCCTTTCCGAAAGAGACATCG
CAATGGCTACCATATACGGGCAGCTGTATGTTCTCTTCTTGAGGCATCATTCTCGGACCTCCAACAGCACAGGAG
CGGAGGTGGTCTCTATCATCTACCACGAGAAGGTGCCTGTAAAAAGATGCACATATTGAAGTTAAATAGGACGG
GAAAGTTTGCCCTGAACGTGGTGGACAACCTGGTAGTCGTGCATCATCAGGATACAGAGACATCGGTAATATTCCG
ATATCAAGTTACGGGGAGAGTTTGACGGCTCCGTTACCTTCCACCACCCCGTGCTTCTGCTCGATCGATCCAGC
CCTATCAGATCCCCATCACAGGTCTGCTGCCGTGACCAGCCAGTCTCCTGTTCCATGTAAACTCTATTCTTCAT
CTTGGATTGTCTTTCAACCTGACATCATTATCAGCGCAAGCCAAGGTTACCTCTGGAACCTCCAAGTGAAACTTG
AGCCCATAGTAAATCTCTTACCAGACAAAGGAAGACTCATGGACTTTCTCCTCCAGAGAAAGGAATGCAAGATGG
TCATCCTGTCTGTCTGTTACAGATGTTAAGTGAGTCAGACAGAGCATCGCTGCCCGTGATAGCCACTGTTTTTG
ATAAACTCAACCATGAGTATAAAAAGTACCTGGATGCCGAGCAGAGTTATGCGATGGCGGTGGAAGCAGGGCAGA
GCCGAAGCAGCCCGCTCCTCAAGAGGCCGGTGCGGACCCAGGCGGTGCTGGACCAGTCAGATGTGTACACCCATG
TCCTGTCAGCCTTCGTGGAAAAGAAGGAGATGCCTCATAAAATTTGTGATAGCCGTGCTGATGGAATACATTCGTT
CTCTTAACCAGTTTCAGATTGCAGTACAGCATTACCTACATGAACTTGTTATCAAACCCCTTGTTCCAGCACAAAC
TCTTTTATATGCTGCATCAGTTCCTGCAGTACCACGTCTCAGCGACTCCAAACCTTTGGCTTGCTGCTGTTAT
CCCTAGAGAGTTTCTATCCTCCTGCTCATCAGCTATCTCTGGACATGCTGAAGCGACTTTCAACAGCAAATGATG
AAATAGTAGAAGTTCTCCTTTCCAAACACCAAGTGTTAGCTGCCTTAAGGTTTATCCGGGGCATTGGTGGCCATG
ACAACATTTCTGCACGAAAATTTTATAGATGCTGCAAAGCAGACTGAAGACAACATGCTTTTCTATACAATATTCC
GCTTTTTTTGAACAGCGAAACCAGCGTTTGGGAGGGAGCCCCAATTTACACCAGGGGAACACTGTGAAGAACATG
TTGCTTTTTTTCAAACAGATTTTTGGAGACCAAGCTCTAATGAGGCCTACAACATTCT**TGAA**ATCACTTGCTGTTTT
TTTATATAAAAAATGTGTACAAAGTTAATTTATTGCATTAATAAAGCTCTTTAAACTAT

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FIGURE 564

MGEEDYYLELCERPVOFEKANPVNCFVFFDEANKQVFAVRSGGATGVVVGKPDNRNPISFRMDDKGEVKCIKFSLE
NKILAVQRTSKTVDFCNFIPDNSQLEYTQECKTKNANILGFCWTSSTEIVFITDQGIEFYQVLPEKRSIKLLKSH
NLNVNWYMYCPERAVILLSTTVLENVLQPFHFHFRAGTMSKLPKFEIELPAAPKSTKPSLSERDIAMATIYGQLYVL
FLRHHSRTSNSTGAENVLYHLPREGACKMHILKLNRTGKFALNVVDNLVVVHHQDTETSVIFDIKLRGEFDGSV
TFHHPVLPARSIQPYQIPITGPAAVTSQSPVPCKLYSSSWIVFQPDIIISASQGYLWNLQVKLEPIVNLPLDKGR
LMDFLQKKECKMVILSVCSQMLSESDRASLPVIATVFDKLNHEYKKYLDAEQSYAMAVEAGQSRSSPLLKRPVR
TQAVLDQSDVYTHVLSAFVEKKEMPHKFVIAVLMHEYIRSLNQFQIAVQHLYLHELVIKTLVQHNLFYMLHQFLQYH
VLSDSKPLACLILLSLESFYPPAHQLSLDMLKRLSTANDEIVEVLLSKHQVLAALRFIRGIGGHDNISARKFLDAA
KQTEDNMLFYTIFRFFEQRNQRLRGSPNFTPGEHCEEHVAFKQIFGDQALMRPTTF

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FIGURE 565

CCTCACTGACTATAAAAAGAATAGAGAAGGAAGGGCTTCAGTGACCGGCTGCCTGGCTGACTTACAGCAGTCAGAC
TCTGACAGGATCATGGCTATGATGGAGGTCCAGGGGGGACCCAGCCTGGGACAGACCTGCGTGCTGATCGTGATC
TTCACAGTGCTCCTGCAGTCTCTCTGTGTGGCTGTAACTTACGTGTACTTTACCAACGAGCTGAAGCAGATGCAG
GACAAGTACTCCAAAAGTGGCATTGCTTGTCTTAAAAAGAAGATGACAGTTATTGGGACCCCAATGACGAAGAG
AGTATGAACAGCCCCCTGCTGGCAAGTCAAGTGGCAACTCCGTCAGCTCGTTAGAAAGATGATTTTGAGAACCTCT
GAGGAAAACCATTTCTACAGTTCAAGAAAAGCAACAAAATATTTCTCCCCTAGTGAGAGAAAGAGGTCCCTCAGAGA
GTAGCAGCTCACATAACTGGGACCAGAGGAAGAAGCAACACATTGTCTTCTCCAACTCCAAGAATGAAAAGGCT
CTGGGCCCGCAAAATAAATCCTGGGAATCATCAAGGAGTGGGCATTCAATCCTGAGCAACTTGCACCTTGAGGAAT
GGTGAACCTGGTCATCCATGAAAAAGGGTTTTACTACATCTATTCCCAAACATACTTTTCGATTTTCAGGAGGAAATA
AAAGAAAACACAAAGAACGACAAACAAATGGTCCAATATATTTACAAATACACAAGTTATCCTGACCCTATATTG
TTGATGAAAAGTGCTAGAAATAGTTGTTGGTCTAAAGATGCAGAATATGGACTCTATTCCATCTATCAAGGGGGA
ATATTTGAGCTTAAGGAAAATGACAGAATTTTTGTTTCTGTAACAAATGAGCACTTGATAGACATGGACCATGAA
GCCAGTTTTTTTCGGGGCCTTTTTAGTTGGCTTAACTGACCTGGAAAAGAAAAAGCAATAACCTCAAAGTGAATTC
AGTTTTTCAGGATGATACACTATGAAGATGTTTCAAAAAATCTGACCAAAACAAACAAACAGAAAACAGAAAACAA
AAAAACCTCTATGCAATCTGAGTAGAGCAGCCACAACCAAAAAATTTCTACAACACACACTGTTCTGAAAGTGACT
CACTTATCCCAAGAAAATGAAATTGCTGAAAGATCTTTCAGGACTCTACCTCATATCAGTTTGCTAGCAGAAATC
TAGAAGACTGTCAGCTTCCAAACATTAATGCAATGGTTAACATCTTCTGTCTTTATAATCTACTCCTTGTAAGA
CTGTAGAAGAAAGCGCAACAATCCATCTCTCAAGTAGTGTATCACAGTAGTAGCCTCCAGGTTTCCTTAAGGGAC
AACATCCTTAAGTCAAAAGAGAGAAGAGGCACCACTAAAAGATCGCAGTTTGCCTGGTGCAGTGGCTCACACCTG
TAATCCCAACATTTTGGGAACCCAAGGTGGGTAGATCACGAGATCAAGAGATCAAGACCATAGTGACCAACATAG
TGAAACCCCATCTCTACTGAAAGTGCAAAATTAGCTGGGTGTGTTGGCACATGCCTGTAGTCCCAGCTACTTGA
GAGGCTGAGGCAGGAGAATCGTTTGAACCCGGGAGGCAGAGGTTGCAGTGTGGTGAGATCATGCCACTACACTCC
AGCCTGGCGACAGAGCGAGACTTGGTTTCAAAAAAAAAAAAAAAAAAAAACTTCAGTAAGTACGTGTTATTTTTT
TCAATAAAATTCTATTACAGTATGTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 566

MAMMEVQGGPSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQMQDKYSKSGIACFLKEDDSYWDPNDEESMNS
PCWQVKWQLRQLVRKMILRTSEETISTVQEKQQNISPLVRERGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRK
INSWESSRSGHSFLSNLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYPDPILLMKS
ARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG

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FIGURE 567

GGGGAGAGCGGGTGTTTGAAGGCTCCGCGGACCGGCCTAGGAGCCGGGGCGGGTCCGTGACCCCTCCGGCTGCT
CGGAGTGAACAGGCGGCCAGGAAAGAAGCGGGCCTGAACACC**ATG**ATCCCTTTGGAGAAGCCAGGCAGCGGCGGC
TCCTCCCCAGGCGCCACCTCAGGCTCGGGCCGGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCCCGCCGCCG
CCCCAGGCCCCGCGGGCTGCTGACAGAGATACGCGCCGTGGTGCGCACCGAGCCCTTCCAGGACGGCTACAGCCTG
TGCCCGGGCCGGGAGCTGGGCAGGGGGAATTTGCAGTGGTGAGAAAATGTATAAAGAAAGATTCTGGGAAAGAA
TTTGCTGCAAAGTTCATGAGAAAAAGAAGAAAGGCCAAGATTGTGCGATGGAAATAATTCATGAGATTGCTGTA
CTTGAAGCTAGCACAAGACAATCCTTGGGTCATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTA
GTTCTGGAATATGCTGCTGGGGGTGAAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAAAAA
GATGTTCAAAGACTTATGCGACAGATTTTAGAAGGTGTTCACTTTTTACACACTCGTGATGTAGTTCATCTTGAT
TTGAAGCCTCAGAAATATTCTGTTGACAAGTGAATCTCCATTGGGTGACATTAAGATTGTTGATTTTGGCCTTTCA
AGAATATTGAAGAACAGTGAAGAGCTCCGAGAAATTATGGGTACCCCTGAATATGTGGCTCCTGAAATTTCTTAGT
TATGATCCTATAAGCATGGCAACAGATATGTGGAGCATTGGAGTGTTAACATATGTCATGCTTACAGGAATATCA
CCTTTCTTAGGCAATGATAACAAGAAACATTCTTAAACATCTCACAGATGAATTTAAGTTATTCTGAGGAAGAA
TTTGATGTTTTGCTGAGTCGGCTGTTGATTTTCATCAGGACACTTTTAGTTAAGAAACCTGAAGATCGAGCCACT
GCTGAAGAATGTCTAAAGCACCCCTGGTTGACACAGAGCAGTATTCAAGAGCCTTCTTTCAGGATGGAAAAGGCA
CTAGAAGAAGCAAATGCCCTCCAAGAAGGTCAATTCTGTGCTGAAATTAATTCGGATACCGACAAATCAGAAACC
GAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTTCATATACTCTAGGACAATGCAGACAGTCTGAAAAA
GAGAAAATGGAGCAAAAGGCCATTTCCAAACGATTTAAATTTGAGGAACCTTTGCTACAAGAAATTCCAGGAGAA
TTTATCTAC**TGA**GCAATATTTCCCTTTAGAACTTCAAGATTTCTACACTGAAAATGTTAATATTATTTATGGACC
TCTGGCCAAATGGTACATGTACTGGAAGTGGATAACCAGTATCACTTACACAAACAAAAATAACTTTGTCAAATT
TGTGGAGTTAGGTGGAAGCCAGATTTTAAAGTTGCCAACAGGATATTTAACAGGTACAGTTACCCGTTTCAAT
GTTATTTTTAAGAAGGGAGATGTTGGCACCTTTGAATTCTACATCCTGTTTCTCCAGAATGAGAATTTGTGTACA
AAGATATTTGTATTCATTTCTTTAAAAAATCCAAGTAAAGTGCCAAAACCTACATTTCTGTAAATCTCTTGCAAT
TATTCATATGTGTATCTATATCTGCATAATGTTTGTTAATGTCTACTAAAATTGCTACTTTTTTCACTTTGGATTT
GTTTTTGGCAAAATTTTAGTCTAAACAGACATCTAAATTTTCGAGACTTAGAATAACATTCATAAAGTTTGATA
ATGTCTTTTTTAAATATTTTCTTACTGCTTTATAGTGACTTGATTTGGTTTCTGTTGTGTTTTTGCCTAAATACT
AGTAACATATCAGTGAAAAACCTAATTTTTTTTTCTCTTCAATGTCCTAGTAAGAGAGGTGGTAATTTTTTACC
TCTGAAATTATTCTGGGTTTAGGTGTCAGCTTTTGAGCTGCTTCCCTCATCACACCACACTCACATGCATCTGTT
CTCTCTCACACTCTATAACCCCTGCCACTTCTCGGCACCTCCCCCATGCTTGTCATTTAATTTTGGCCACTTGTA
GGTATCAGTGTGATCTGATCAACACTCTGGTTACCTTGGTCAGTGAAAAGATGCTACTATATTGCTTTTGTCCCA
AAGTGAGTAAATCCCCCTAGAGCAGAGAGAGAGAGAGAGAGAGAGTGTCTTCATGCCAACACAGCCTGTTTCTG
CTGAGTTTCTTATCAGCCCTCAAGCTATGCTAGGAAAAGTTATAAAATGCCAAAATATTTATAAACATTTACTTT
GTCCATAAAAAATTTACATTGGTACTCTGTAAGTAGGAGGTACTTTGTCCCAAAAAGATGTATAAGAATGTACT
AATAGTTTTATTTGATTAGGATTGAACAGTTCAGTTGTATCTATGCCCCACAGTGACCAGTAAAGTCCAATTAA
ATATGGAAATGTAAAGTGTATGCCGAATACCTTAAAGTAACTAATTATCCTTACACACAAAAGGCTCAGTGCAAT
TAAATATTTGCCTATC

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FIGURE 568

MIPLEKPGSGGSSPGATSGSGRAGRGLSGPCRPPPPQARGLLTEIRAVVRTEPFQDGYSICPGRELGRGKFAVV
RKCIKKDSGKEFAAKFMRKRRKGQDCRMEIIHEI AVL ELAQDNPWVINLHEVYETASEMILVLEYAAGGEIFDQC
VADREEAFKEKDVQRLMRQILEGVHFLHTRDVVHLDLKPQNILLTSESPLGDIKIVDFGLSRILKNSEELREIMG
TPEYVAPEILSYDPISMATDMWSIGVLTIVMLTGISPFLGNDKQETFLNISQMNL SYSEEEFDVLS ESAVDFIRT
LLVKKPEDRATAEECLKHPWLTQSSIQEPSFRMEKALEEANALQEGHSVPEINSDTDKSETEESIVTEELIVVTS
YTLGQCRQSEKEKMEQKAISKRFKFEEPLLQEIPGEFIY

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FIGURE 569A

CACGCCCCGCGCTGCTGGGTCCCGCCAGACACGCCGCCGCCGAGGAAAGTCTACAGTTTGGTACCCCAGGACTC
GCTGGTCAGGAAAGCCCTGCAGGACATGAGTGTTAGGCCCGACGCCTGGCCCTTGGCAGCTTGGGAGGTGGCTGG
GGCTGCTTTTGCCTTTGCCAGAGACAGCTCCAACCTGAGGACCTCTCCAACGGGCCCCATCCACAGTCCTTCCTTCC
CCTAGTGCTCTGGGAAGACAGGCGCGATGATGGACTCCCCGTTCTGGAGCTGTGGCAGTCCAAGGCAGTGTCAT
CAGGGAGCAGCTGGGACTCGGGGACCGGCCCAACGACTCCTATTGCTACAACCTCGGCCAAAAACAGCACCGTGCT
CCAGGGGGTCACCTTTGGTGGCATCCCCACTGTCTGCTCATAGACGTCAGCTGCTTCCTGTTCTTAATCTTGGT
GTTTTCTATTATAAGAAGAAGATTCTGGGACTATGGCCGCATTGCCCTGGTGTGAGAAGCAGACAGCGAGTCCAG
ATTTTCAGAGATTGTTCATCGACTTCCTCCTCAGGTCAACAAGACTTTGAAAATGAGCTGGGATGCTGTCCCTGGCT
GACTGCCATCTTCCGTCTGCATGATGACCAGATCCTGGAATGGTGTGGGGAGGACGCCATCCACTACCTGTCCTT
CCAGAGGCACATCATCTTCCTGTTGGTGGTGGTCAGCTTTTTGTCCCTGTGTGTCATCCTGCCTGTCAACCTCTC
AGGGGATTTGCTGGACAAAGACCCGTATAGTTTTGGGAGGACAACAATAGCAAACCTACAGACTGACAATGACCT
CCTTTGGCTGCACACCATCTTTGCTGTCAATTAACCTCTTCTTCACTGTGGGTTTTCATGCGGCACCACACTCAGTC
CATTAGTACAAAGAGGAGAACCTGGTGAGGCGGACCCTGTTTCATCACAGGACTCCCCAGAGATGCCAGGAAGGA
GACTGTGGAGAGCCACTTCCGGGACGCGTATCCACGTTGTGAGGTGGTTGATGTGCAGCTGTGCTACAACGTGGC
CAAACCTGATCTACCTGTGCAAGGAGAAAAAGAAGACTGAGAAGAGCCTGACCTATTACACAAACCTGCAGGTGAA
GACAGGCCAGCGGACCCTCATCAACCCCAAGCCCTGTGGCCAGTTTTGCTGCTGTGAAGTGTGGGCTGTGAGTG
GGAAGACGCCATCTCTTACTACACACGGATGAAGGACAGGCTGCTGGAGAGGATCACAGAGGAAGAAGCCACGT
CCAGGACCAGCCCCCTGGGAATGGCCTTCGTACCTTCCAGGAGAAGTCCATGGCCACCTACATCCTGAAAGATTT
CAATGCCTGCAAGTGTGAGAGCCTTCAGTGCAAAGGTGAGCCCCAGCCGTCCTCCCATAGCAGGGAGCTCTATAC
CTCCAAGTGGACAGTCACCTTTGCTGCTGACCCTGAGGACATCTGCTGGAAGAACCTCTCTATCCAGGGCCTCCG
CTGGTGGCTACAGTGGCTGGGCATCAACTTCACCCTCTTCTGCGGCTATTTTTCTGACCACACCCTCCATCAT
CCTGTCCACCATGGACAAGTTTAATGTACCAAACCCATCCATGCGCTGAATAACCCGATCATCAGCCAGTTCTT
CCCCACCCTCCTGCTCTGGTCTTCTCGGCCCTGCTCCCCCTCCATTGTCTACTACTCTACACTGCTGGAGTCTCA
CTGGACCAAGTCGGGGGAAAACCAGATCATGATGACCAAAGTCTACATATTCTTGATCTTCATGGTGTGATCCT
GCCCTCCCTGGGTCTCACCAGTCTAGATTTTTTCTTCCGGTGGCTCTTTGACAAAACCTTCCGAGGCCTCCAT
CAGGTTGGAGTGCCTCTTCTGCTGACCAGGGTGCCTTCTTTGTGAACCTATGTCATCGCCTCGGCCTTCATCGG
CAATGGCATGGAGCTGCTGCGGCTGCCAGGTCTCATCCTCTATACCTTCCGCATGATCATGGCCAAGACGGCTGC
TGACCGCAGGAATGTCAAGCAGAACCAGGCCTTCCAGTACGAGTTTGGAGCCATGTATGCATGGATGCTGTGTGT
CTTCACTGTTCATCGTGGCTACAGCATCACTTGTCCCATCATCGCGCCATTTGGCCTCATCTACATCCTGCTCAA
GCACATGGTGGACCGGCACAACCTCTACTTTCGTCTACCTCCCAGCCAAGCTGGAGAAGGGGATCCACTTTGCCGC
TGTGAACCAGGCCTTGGCAGCCCCCATCCTGTGCCTCTTCTGGCTCTACTTCTTTCTTCTTCTGCGCTGGGTAT
GAAGGCCCCCGCCACTCTGTTACCTTCTGGTGTGCTGCTGCTCACCATCCTGGTCTGCTGGCTCACACCTGCTT
TGGATGCTTCAAGCACCTCAGCCCTCTGAACCTACAAAACAGAAGAGCCTGCAAGTGACAAAGGAAGTGAGGCAGA
GGCCACATGCCCCCACCCTTACACCCCTACGTGCCTCGGATTCTGAACGGCTTGGCCTCGGAGAGGACAGCACT
GTCTCCGCAGCAGCAGCAGCAGACCTATGGTGCCATCCACAACATCAGCGGGACTATCCCTGGACAGTGCTT
GGCGCAGAGCGCCACGGGCAGTGTTGGCTGCTGCCCCCAGGAGGCCCTGAGGCTGGGTCTCACTGCTCTGAAAAGA
CACAACCAGAATGGCCTGGGGCTCAGGCCCTTGGCTGAGTGGAATGCGTTGGGACTGCCCAGCTGAGCTATCAG
GTGCCATCTTTTCTGGTCCCAGCAGTGGTGAGGAGAGCACAGGCAGGCCTCGCCCCCTCCCTTGCTCACCCAGTT
TCCCCTCCGGCACAAGCTTCCAGCTCTGCAGCTGGGGTGACATCCCCAGTGGTTTGTGCGCAAGACCATGTGGTG
GACTTTTTCGCCCCCAAACTGATGAGTCCGGGAGAATATATGGAGAGAGAGATGTAACAAGGGGAAGGCCTCCTC
CCTTCTGAGCACACACAACCGATAACCAAAGAGATGCTGCAGTCCAGGTCTGAGGTCCCGCTGGCATCCAGCT
CCCTGCTCCATGGCCAGTCCCTCCCCAGCCCAGCAGTCCCTCCAGGCTACATCCAGGAGTAAGCTATGGGGAACA
GGTTGGGAGGTGGCCAGTGCTCCTGCCAGCTGTGCACACATCTCTGTATCCCGCTAGAGTTCTGTGTTTTTGTAT
CATGTTGTGAGGACGCTAGCTGGGTGAGGGTTACCCCATAGCAGGCAGGGACAAGGACCACTCATAATATGCCC
ATTGGACCACAGTTAAGATCCAGCCTCTCTACCTCTTTCAGGGCTGAGTGATGAGTCTGCACCTCCAGGCAGGC
TCTGTGCACTACTACCCCCCTCCGTCTGCTCCCTCCAAGGTGTGGGGGTGGGCAGTGCTCAGGGCCTCCTCGGAG
CCAAAGGACAGCATGGTGGGCACAGAGGAAGGGGTACCTGGGCTGGGTGCAGGGCCATCCCACTGCCCTTGAGCT
GTGGCTCTGGCAGGAAGGAGGGGCAGCCATCCCTCTTCTCCCTCCTGGGGATTCTGGGGAATGGGATGCAACTT

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FIGURE 569B

AAGACTTCTGCCTGAGAAGCCTCCTCCCTGCTGCCTCCAGGGGGCACCAAGGCACAAGCCTGTGCAGTAGGGGCG
GGATGGGGGTGTGGAAGAGCAGGTCCAGGCTCCTAGCACAACTGGCCTGGGGCCTTGGCACCTCTGTAGGCCCTG
CCTGTGCCTGTCCGCTGGCCTGGGGGGCCTGGGGCTTATCTGGGCCTTCTCACTCAGGGACTCTCTTGACGCTGAC
TTGCCCCCGCAGCGGTGGCCAGTGCTGCCTCTGCTCCAAGCTGCCCCCTGCGCTGGGAGGGGTGGGGGCGGTGCCA
TTGGTCTGGTGCAGCATAGCCCTGGCCAGTGGCCTCATCCCCAGCAGGCCTCCCGTGCCTCTGCCAGCAAGGAGG
GGCCGGCCAGCTCTGCTTGACAGGGGGCCCCATGTGGGGTCAGCGCACGCTCATGTCACTGAGTTCCAGCCGCT
TTTAGAGTAAAGTCGTTTATCATC

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FIGURE 570

MMDSPFLELWQSKAVSIREQLGLGDRPNDSYCYNSAKNSTVLQGVTFGGIPTVLLIDVSCFLFLILVFSIIRRRF
WDYGRIALVSEADSESRFQRLSSTSSSGQQDFENELGCCPWLTAFRLHDDQILEWCGEDAIHYLSFORHIIFLL
VVVSFLSLCVILPVNLSGDLDDKDPYSFGRTTIANLQTDNDLLWLHTIFAVIYLFFTVGFMRHHTQSIKYKEENL
VVRTLFITGLPRDARKETVESHFRTDAYPTCEVVDVQLCYNVAKLIYLCKEKKKTEKSLTYTTLNLQVKTGQRTLIN
PKPCGQFCCCEVLGCEWEDAISYYTRMKDRLLERI TEEERHVQDQPLGMAFVTFQEKSMATYILKDFNACKCQSL
QCKGEPQPSHSRELYTSKWTVTFAADPEDICWKNLSIQGLRWLQWLGINFTLFLGLFFLTTPSIILSTMDKFN
VTKPIHALNNPIISQFFPTLLLSFSALLPSIVYYSTLLESHWTKSGENQIMMTKVYIFLIFMVLILPSLGLTSL
DFFFRWLFDKTSSEASIRLECVFLPDQGAFFVNYVIASAFIGNGMELLRLPGLILYTFRMIMAKTAADRRNVKQN
QAFQYEFGAMYAWMLCVFTVIVAYSITCPIIAPFGLIYILLKHMVDRHNLVYFVYLPKLEKGIHFAAVNQALAAP
ILCLFWLYFFSFLRLGMKAPATLFTFLVLLLTILVCLAHTCFGCFKHLSPLNYKTEEPASDKGSEAEAHMPPFT
PYVPRILNGLASERTALSPQQQQQTYGAIHNISGTIPGQCLAQSATGSVAAAPQEA

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FIGURE 571A

CGCCCCGCCTCTGAGCTCCCTTCCC**ATG**CGGGCCCTAGTGTTGGAGGACGGGTCTGCGGGGCCAGCCCT
TTGGGGCCCGCGTGTCTGACTGCCGGGAAGTGGTGTTC**AA**ACCGGCATGGTTCGGCTACCCCGAGGCCCTCACTG
ATCCCTCCTACAAGGCACAGATCTTAGTGCTCACCTATCCTCTGATCGGCAACTATGGCATCCCCCAGATGAAA
TGGATGAGTTCGGTCTCTGCAAGTGGTTTTGAATCCTCGGGCATCCACGTAGCAGCACTGGTAGTGGGAGAGTGCT
GTCCTACTCCCAGCCACTGGAGTGCCACCCGCACCCTGCATGAGTGGCTGCAGCAGCATGGCATCCCTGGCTTGC
AAGGAGTAGACACTCGGGAGCTGACCAAGAAGTTGCGGGAACAGGGGTCTCTGCTGGGGAAGCTGGTCCAGAATG
GAACAGAACCTTCATCCCTGCCATTCTTGGACCCCAATGCCCGCCCCCTGGTACCAGAGGTCTCCATTAAGACTC
CACGGGTATTC**AA**TACAGGGGGTGCCCCCTCGGATCCTTGCTTTGGACTGTGGCCTCAAGTATAATCAGATCCGAT
GCCTCTGCCAGCGTGGGGCTGAGGTCAGTGTGGTACCCTGGGACCATGCACTAGACAGCCAAGAGTATGAGGGTC
TCTTCTTAAGTAATGGGCCTGGTGACCCTGCCTCCTATCCCAGTGTCGTATCCACACTGAGCCGTGTTTTATCTG
AGCCTAATCCCCGACCTGTCTTTGGGATCTGCCTGGGACACCAGCTATTGGCCTTAGCCATTGGGGCCAAGACTT
ACAAGATGAGATATGGGAACCGAGGCCATAACCAGCCCTGCTTGTGGTGGGCTCTGGGCGCTGCTTTCTGACAT
CCCAGAACCATGGGTTTTGCTGTGGAGACAGACTCACTGCCAGCAGACTGGGCTCCTCTCTTACCAACGCCAATG
ATGGTTCCAATGAAGGCATTGTGCACAACAGCTTGCCTTTCTTCAGTGTCAGTTTCACCCAGAGCACCAAGCTG
GCCCTTCAGATATGGA**ACT**GCTTTTCGATATCTTTCTGGAACTGTGAAAGAGGCCACAGCTGGGAACCCCTGGGG
GCCAGACAGTTAGAGAGCGGCTGACTGAGCGCCTCTGTCCCCCTGGGATTCCCACTCCCGGCTCTGGACTTCCAC
CACCACGAAAGTTCTGATCCTGGGCTCAGGGGGCCTCTCCATTGGCCAAGCTGGAGAATTGACTACTCGGGCT
CTCAGGCAATTAAGGCCCTGAAGGAGGAAAACATCCAGACGTTGCTGATCAACCCCAATATTGCCACAGTGCAGA
CCTCCCAGGGGCTGGCCGACAAGGTCTATTTTCTTCCATAACACCTCATTATGTAACCCAGGTGATACGTAATG
AACGCCCCGATGGTGTGTTACTGACTTTTGGGGGCCAGACTGCTCTGA**ACT**GTGGTGTGGAGCTGACCAAGGCCG
GGGTGCTGGCTCGGTATGGGGTCCGGGTCTGGGCACACCAGTGGAGACCATTGAGCTGACCGAGGATCGACGGG
CCTTTGCTGCCAGAATGGCAGAGATCGGAGAGCATGTGGCCCCGAGCGAGGCAGCAAATTCTCTTGAACAGGCC
AGGCAGCCGCTGAACGGCTGGGGTACCCTGTGCTAGTGCGTGCAGCCTTTGCCCTGGGTGGCCTGGGCTCTGGCT
TTGCCTCTA**AC**AGGGAGGAGCTCTCTGCTCTCGTGGCCCCAGCTTTTGCCCATACCAGCCAAGTGCTAGTAGACA
AGTCTCTGAAGGGATGGAAGGAGATTGAGTACGAGGTGGTGAGAGACGCCTATGGCAACTGTGTACGGTGTGTA
ACATGGAGAACTTGGACCCACTGGGCATCCACACTGGTGAGTCCATAGTGGTGGCCCTAGCCAGACACTGAATG
ACAGGGAGTATCAGCTCCTGAGGCAGACAGCTATCAAGGTGACCCAGCACCTGGGAATTGTTGGGGAGTGCAATG
TGCAGTATGCCTTGAACCTGAGTCTGAGCAGTATTACATCATTGAAGTGAATGCCAGGCTCTCTCGCAGCTCTG
CCCTGGCCAGTAAGGCCACAGGTTATCCACTGGCTTATGTGGCAGCCAAGCTAGCATTGGGCATCCCTTTGCCTG
AGCTCAGGA**ACT**CTGTGACAGGGGTACAGCAGCCTTTGAACCCAGCGTGGATTATTGTGTGGTGAAGATTCCTC
GATGGGACCTTAGCAAGTTCTTGCAGTCA**CA**AAAGATTGGGAGCTGCATGAAGAGCGTTGGTGAAGTCATGG
GCATTGGGCGTTCA**TT**TGAGGAGGCCTTCCAGAAGGCCCTGCGCATGGTGGATGAGAACTGTGTGGGCTTTGATC
ACACAGTGAAAC**CA**GTCA**GC**GATATGGAGTTGGAGACTCCAACAGATAAGCGGATTTTGTGGTGGCAGCTGCTT
TGTGGGCTGGTTATTCAGTGGACCGCTGTATGAGCTCACACGCATCGACCGCTGGTTCCTGCACCGAATGAAGC
GTATCATCGCACATGCCAGCTGCTAGAACAAACACCGTGGACAGCCTTTGCCGCCAGACCTGCTGCAACAGGCCA
AGTGTCTTGGCTTCTCAGACAAACAGATTGCCCTTG**CA**GTTCCTGAGCACAGAGCTGGCTGTT**CG**CAAGCTGCGTC
AGGA**ACT**GGGGATCTGTCCAGCAGTGAAACAGATTGACACAGTTGCAGCTGAGTGGCCAGCCCAGACAAATTACC
TATACCTAACGTATTGGGGCACCACCCATGACCTCACCTTT**CG**AACACCTCATGTCTAGTCCTTGGCTCTGGCG
TCTACCGTATTGGCTCTAGCGTTGAATTTGACTGGTGTGCTGTAGGCTGCATCCAGCAGCTCCGAAAGATGGGAT
ATAAGACCATCATGGTGA**ACT**ATAACCCAGAGACAGTCAGCACCGACTATGACATGTGTGATCGACTCTACTTTG
ATGAGATCTCTTTT**G**AGGTGGT**GAT**GGACATCTATGAGCTCGAGAAACCTGAAGGTGTGATCCTATCCATGGGTG
GACAGCTGCCCAACAACATGGCCATGGCGTTGCATCGGCAGCAGTGCCGGGTGCTGGGCACCTCCCCTGAAGCCA
TTGACTCGGCTGAGAAACCGTTTCAAGTTTTCCCGGCTCCTTGACACCATTGGTATCAGCCAGCCTCAGTGGAGGG
AGCTCAGTGACCTCGAGTCTGCTCGCCAATTCTGCCAGACCGTGGGGTACCCCTGTGTGGTGCGCCCTCCTATG
TGCTGAGCGGTGCTGCTATGAATGTGGCTACACGGATGGAGACCTGGAGCGCTTCCTGAGCAGCGCAGCAGCCG
TCTCCAAAGAGCATCCCGTGGT**CAT**CTCCAAGTTCATCCAGGAGGCTAAGGAGATTGACGTGGATGCCGTGGCCT
CTGATGGTGTGGTGGCAGCCATCGCCATCTCTGAGCATGTGGAGAATGCAGGTGTGCATT**CAG**GTGATGCGACGC
TGGTGACCCCCCACAAGATATCACTGCCAAAACCTGGAGCGGATCAAAGCCATTGTGCATGCTGTGGGCCAGG

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FIGURE 571B

AGCTACAGGTCACAGGACCCTTCAATCTGCAGCTCATTGCCAAGGATGACCAGCTGAAAGTTATTGAATGCAACG
TACGTGTCTCTCGCTCCTTCCCTTTCGTTTCCAAGACACTGGGTGTGGACCTAGTAGCCTTGGCCACGCGGGTCA
TCATGGGGGAAGAAGTGGAACCTGTGGGGCTAATGACTGGTTCTGGAGTCGTGGGAGTAAAGGTGCCTCAGTTCT
CCTTCTCCCGCTTGGCGGGTGCTGACGTGGTGTGGGTGTGGAAATGACCAGTACTGGGGAGGTGGCCGGCTTTG
GGGAGAGCCGCTGTGAGGCATACCTCAAGGCCATGCTAAGCACTGGCTTTAAGATCCCCAAGAAGAATATCCTGC
TGACCATTGGCAGCTATAAGAACAAAAGCGAGCTGCTCCCAACTGTGCGGCTACTGGAGAGCCTGGGCTACAGCC
TCTATGCCAGTCTCGGCACAGCTGACTTCTACACTGAGCATGGCGTCAAGGTAACAGCTGTGGACTGGCACTTTG
AGGAGGCTGTGGATGGTGAAGTGGCCACCACAGCGGAGCATCCTGGAGCAGCTAGCTGAGAAAACTTTGAGCTGG
TGATTAACTGTCAATGCGTGGAGCTGGGGGCGGCGTCTCTCTTCTTTGTACCAAGGGCTACCGCACCCGAC
GCTTGGCCGCTGACTTCTCCGTGCCCCAATCATCGATATCAAGTGCACCAAACCTTTTGTGGAGGCCCTAGGCC
AGATCGGGCCAGCCCCTCCTTTGAAGGTGCATGTTGACTGTATGACCTCCCAAAGCTTGTGCGACTGCCGGGAT
TGATTGATGTCCATGTGCACCTGCGGGAACAGGTGGGACACATAAGGAGGACTTTGCTTCAGGCACAGCCGCTG
CCCTGGCTGGGGGTATCACCATGGTGTGTGCCATGCCAATACCCGGCCCCCATCATTGACGCCCCCTGCTCTGG
CCCTGGCCCAAGAAGCTGGCAGAGGCTGGCGCCCGGTGCGACTTTGCGCTATTCTTGGGGCCTCGTCTGAAAATG
CAGGAACCTTGGGCACCGTGGCCGGGTCTGCAGCCGGGTGAAGCTTTACCTCAATGAGACCTTCTCTGAGCTGC
GGCTGGACAGCGTGGTCCAGTGGATGGAGCATTTTCGAGACATGGCCCTCCACCTCCCCATTGTGGCTCACGCAG
AGCAGCAAACCGTGGCTGCTGTCTCATGGTGGCTCAGCTCACTCAGCGCTCAGTGCACATATGTCACGTGGCAC
GGAAGGAGGAGATCCTGCTAATTAAAGCTGCAAAGGCACGGGGCTTGCCAGTGACCTGCGAGGTGGCTCCCCACC
ACCTGTTCTTAAGCCATGATGACCTGGAGCGCTGGGGCCTGGGAAGGGGGAGGTCCGGCCTGAGCTTGGCTCCC
GCCAGGATGTGGAAGCCCTGTGGGAGAACATGGCTGTCTCATCGACTGCTTTGCCTCAGACCATGCTCCCCATACCT
TGGAGGAGAAGTGTGGGTCCAGGCCCCACCTGGGTTCCAGGGTTAGAGACCATGCTGCCACTACTCCTGACGG
CTGTAAGCGAGGGCCGGCTCAGCCTGGACGACCTGCTGCAGCGATTGCACCACAATCCTCGGCGCATCTTTCACC
TGCCCCCGCAGGAGGACACCTATGTGGAGGTGGATCTGGAGCATGAGTGGACAATTCCAGCCACATGCCCTTCT
CCAAGGCCCACTGGACACCTTTTGAAGGGCAGAAAGTGAAGGGCACCCTCCGCCGTGTGGTCTGCGAGGGGAGG
TTGCCTATATCGATGGGCAGGTTCTGGTACCCCCGGGCTATGGACAGGATGTACGGAAGTGGCCACAGGGGGCTG
TTCCTCAGCTCCCAACCCTCAGCCCCTGCCACTAGTGAGATGACCACGACACCTGAAAGACCCCGCCGTGGCATCC
CAGGGCTTCTGATGGCCGCTTCCATCTGCCGCCCCGAATCCATCGAGCCTCCGACCCAGGTTTGGCAGCTGAGG
AGCCAAAGGAGAAGTCTCTCGGAAGGTAGCCGAGCCAGAGCTGATGGGAACCCCTGATGGCACCTGCTACCCCTC
CACCACCAGTACCGAGACAGGCATCTCCCCAGAACCTGGGGACCCCTGGCTTGCTGCACCCCCAGACCTACCCCC
TGCTGCACTCATTAGTGGGCCAACATATCCTGTCCGTCCAGCAGTTCACCAAGGATCAGATGTCTCACCTGTTCA
ATGTGGCACACACACTGCGTATGATGGTGCAGAAGGAGCGGAGCCTCGACATCCTGAAGGGGAAGGTATGGCCT
CCATGTTCTATGAAGTGAGCACACGGACCAGCAGCTCCTTTGCAGCAGCCATGGCCCGGTGGGAGGTGCTGTGC
TCAGCTTCTCGGAAGCCACATCGTCCGTCCAGAAGGGCGAATCCCTGGCTGACTCCGTGCAGACCATGAGCTGCT
ATGCCGACGTCGTGCTGCCGACCCCCAGCCTGGAGCAGTGGAGCTGGCCGCCAAGCACTGCCGGAGGCCAG
TGATCAATGCTGGGGATGGGGTCGGAGAGCACCCACCCAGGCCCTGCTGGACATCTTACCATCCGTGAGGAGC
TGGGAACCTGTCAATGGCATGACGATCACGATGGTGGGTGACCTGAAGCACGGACGCACAGTACATTCCCTGGCCT
GCCTGCTCACCCAGTATCGTGTGACCTGCGCTACGTGGCACCTCCCAGCCTGCGCATGCCACCCACTGTGCGGG
CCTTCGTGGCCTCCCGCGGCACCAAGCAGGAGGAATTCGAGAGCATTGAGGAGGCGCTGCCTGACACTGATGTGC
TCTACATGACTCGAATCCAGAAGGAACGATTTGGCTCTACCCAGGAGTACGAAGCTTGCTTTGGTCAAGTTTCATCC
TCACTCCCCACATCATGACCCGGGCCAAGAAGAAGATGGTGGTGAATGACCCGATGCCCCGTGTCAACGAGATAA
GCGTGGAAGTGGACTCGGATCCCCGCGCAGCCTACTTCCGCCAGGCTGAGAACGGCATGTACATCCGCATGGCTC
TGTTAGCCACCGTGCTGGGCCGTTTCTAGGGGCTGGCTTCCCTCAGCCTCTTCTCTTTAGGCCAGCTGCTGGGC
AAGGAATTCCAGTGCTCCTACGGGGGCGAGCACACTTAGATATTCTTGGACATCCAGATTGCTCACATGTGCTGA
CCACACTTCAGGCTCTGGACTGGAGCTCTCTGGCATGGGGGTGGGGCCTCAGATGCTGGGGCCAGTCTGCCCA
TCTTCATTCTGCACCTTAAACCTGTACAGTCATTTTTCTACTGACTTAATAAACAGCCGAGCTGTCCCTTG

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FIGURE 572

MAALVLEDGSVLRGQPFGA AVSTAGEVVFQ TGMVGYPEALTDP SYKAQILVLTYP LIGNYGIPPEMDEFGLCKW
FESSGIHVAALVVGECCTP SHWSATRTLHEWLQQHGIPGLQGVD TRELTKKLREQGSLLGKLVQNGTEPSSLPF
LDPNARPLVPEVSIKTPRVFNTGGAPRILALDCGLKYNQIRCLCQRGA ETVVPWDHALDSQEYEGFLSNGPGD
PASYPVSVSTLSRVLSEPNRPVFGICLGHQLLALAIGAKTYKMRYGNRGHNQPCLLVGSGRCFILTSQNHGFAVE
TDSLPA DWAPLFTNANDGSNEGIVHNSLPFFSVQFHPEHQAGPSDMELLFDIFLETVKEATAGNPGGQTVRERLT
ERLCPPGIPTPGSGLPPPRKVLILGSGGLSIGQAGEFDYSGSQA IKAALKEENIQTLINPNIA TVQTSQGLADKV
YFLPITPHYVTQVIRNERPDGVLLTFGGQTALNCGVELTKAGVLARYGVRVLGTPVETIETEDRRAF AARMAEI
GEHVAPSEAANSLEQAQAAAERLGYPVLVRAAFALGGLGSGFASNREELSALVAPAF AHTSQVLVDKSLKGWKEI
EYEVVRDAYGNCVTVCNMENLDPLGIHTGESIVVAPSQTLNDREYQLLRQTAIKVTQHLGIVGECNVQYALNPES
EQYYIEVNARLSRSSALASKATGYPLAYVA AKLALGIPLPELRNSVTGGTAAFEPSVDYCVVKIPRWDLSKFLR
VSTKIGSCMKSVGEVMGIGRSFEEAFQKALRMVDENCVGFDHTVKPVS DMELETPTDKRIFVVAALWAGYSVDR
LYELTRIDRWFLHRMKRIIAHAQLLEQHRGQPLFPDLLQQA KCLGFSKQIALAVLSTELAVRKL RQELGICPAV
KQIDTVAAEWPAQTNYLYLTYWGTTHDLTFRTPHVLVLGSGVYRIGSSVEFDWCAVGCIQQ LRKMGYKTIMVNYN
PETVSTDYDMCDRLYFDEISFEVVMDIYELENPEGVILSMGGQLPNNMAMALHRQQCRVLGTSPEAIDSAENRFK
FSRLLDTIGISQPQWRELSDESARQFCQTVGYPCVVRPSYVLSGAAMNVAYTDGDLERFLSSAAAVSKEHPVVI
SKFIQEAKEIDVDAVASDGVVAAIAISEHVENAGVHSGDATLVTPPQDITAKTLERIKAI VHAVGQELQVTGPFN
LQLIAKDDQLKVIECNVRVRSRFPFVSKTLGVDLVALATRVIMGEEVEPVGLMTGSGVVGVKVPQFSF SRLAGAD
VVLGVEMTSTGEVAGFGESRCEAYLKAMLSTGFKIPKKNILLTIGSYKNKSELLPTVRLL ES LGYSLYASLG TAD
FYTEHG VKVTAVDWHFEEAVDGECPQRSILEQLAEKNFELVINLSMRGAGGRRLSSFVT KG YRTRRLAADFSVP
LIIDIKCTKLFVEALGQIGPAPPLKVHVDCMTSQKLVR LPLGLIDVHVHLREP GGTHKEDFASGTAAALAGGITMV
CAMPNTRPPIIDAPALALAQKLA EAGARCDFALFLGASSENAGTLGT VAGSAAGLKLYLNETFSELRLDSV VQWM
EHFETWPSHLP IVAHA EQQTVA AVLMAVQLTQRSVHICHVARKEEILLIKA AKARGLPVTCEVAPHHLFLSHDDL
ERLGP GKGEVRPELGS RQDVEALWENMAVIDCFASDHAPHTLEEKCGSRPPPGFPGLETMLPLLLTAVSEGRLSL
DDLLQRLHHNPRRIFHLPPQEDTYVEVDLEHEWTIPSHMPFSKAHWTFEGQKVKGTVRRVVL RGEVAYIDGQVL
VPPGYGQDVRKWPQGAVPQLPPSAPATSEMTTTPERPRRGIPGLPDGRFHLPPRIHRASDPGLPAEEPKEKSSRK
VAEPELMGTPDGTCTYPPPPVPRQASPNLGTPLLHPQTSPL LHSVLVGQHILSVQQFTK DQMSHLFNVAHTLRMM
VQKERSLDILKGKVMASMFYEVSTRTSSSFAAMARLGGA VLSFSEATSS

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FIGURE 573

AGGGAGTCGTGTCGGCGCCACCCCGGCCCCCGAGCCCGCAGATTGCCACCGAAGCTCGTGTGTGCACCCCCGAT
CCCGCCAGCCACTCGCCCCCTGGCCTCGCGGGCCGTGTCTCCGGCATCATGTGTGGTATATTTGCTTACTTAACT
ACCATGTTCTCTGAACGAGACGAGAAATCCTGGAGACCCTAATCAAAGGCCTTCAGAGACTGGAGTACAGAGGAT
ATGATTCTGCTGGTGTGGGATTTGATGGAGGCAATGATAAAGATTGGGAAGCCAATGCCTGCAAAACCCAGCTTA
TTAAGAAGAAAGGAAAAGTTAAGGCACTGGATGAAGAAGTTCACAAGCAACAAGATATGGATTTGGATATAGAAT
TTGATGTACACCTTGGAATAGCTCATACCCGTTGGGCAACACATGGAGAACCCAGTCCTGTCAATAGCCACCCCC
AGCGCTCTGATAAAAAATAATGAATTTATCGTTATTTCACAATGGAATCATCACCAACTACAAAGACTTGAAAAAGT
TTTTGGAAAGCAAAGGCTATGACTTCGAATCTGAAACAGACACAGAGACAATTGCCAAGCTCGTTAAGTATATGT
ATGACAATCGGGAAAGTCAAGATACCAGCTTTACTACCTTGGTGGAGAGAGTTATCCAACAATTGGAAGGTGCTT
TTGCACCTGTGTTTTAAAGTGTTTCAATTTCCCGGGCAAGCAGTTGGCACAAGGCGAGGTAGCCCTCTGTTGATTG
GTGTACGGAGTGAACATAAACTTTCTACTGATCACATTCTTATACTCTACAGAACAGGCAAAGACAAGAAAGGAA
GCTGCAATCTCTCTCGTGTGGACAGCACAACTGCCTTTTCCCGGTGGAAGAAAAGCAGTGGAGTATTACTTTG
CTTCTGATGCAAGTGCTGTCTATAGAACACACCAATCGCGTCATCTTTCTGGAAGATGATGATGTTGCAGCAGTAG
TGGATGGACGTCTTTCTATCCATCGAATTAAACGAAGTGCAGGAGATCACCCCGGACGAGCTGTGCAAACTCC
AGATGGAAGTCCAGCAGATCATGAAGGGCAACTTCAGTTCATTTATGCAGAAGGAAATATTTGAGCAGCCAGAGT
CTGTCTGTAACACAATGAGAGGAAGAGTCAACTTTGATGACTATACTGTGAATTTGGGTGGTTTGAAGGATCACA
TAAAGGAGATCCAGAGATGCCGGCGTTTGATTCTTATTGCTTGTGGAACAAGTTACCATGCTGGTGTAGCAACAC
GTCAAGTCTTGTAGGAGCTGACTGAGTTGCCTGTGATGGTGGAACTAGCAAGTGAAGTCTCTGGACAGAAAACAC
CAGTCTTTGAGATGATGTTTGCTTTTTCTTAGTCAATCAGGTGAGACAGCAGATACTTTGATGGGTCTTCGTT
ACTGTAAGGAGAGAGGAGCTTTAACTGTGGGGATCACAAACACAGTTGGCAGTTCATATCACGGGAGACAGATT
GTGGAGTTCATATTAATGCTGGTCCTGAGATTGGTGTGGCCAGTACAAAGGCTTATACCAGCCAGTTTGTATCCC
TTGTGATGTTTGCCCTTATGATGTGTGATGATCGGATCTCCATGCAAGAAAGACGCAAAGAGATCATGCTTGGAT
TGAAACGGCTGCCTGATTTGATTAAGGAAGTACTGAGCATGGATGACGAAATTCAGAAACTAGCAACAGAACTTT
ATCATCAGAAAGTCAGTTCGTATAATGGGACGAGGCTATCATTATGCTACTTGTCTTGAAGGGGCACTGAAAATCA
AAGAAATTACTTATATGCACTCTGAAGGCATCCTTGCTGGTGAATTGAAACATGGCCCTCTGGCTTTGGTGGATA
AATTGATGCCTGTGATCATGATCATCATGAGAGATCACACTTATGCCAAGTGTGAGAATGCTCTTCAGCAAGTGG
TTGCTCGGCAGGGGCGGCCTGTGGTAATTTGTGATAAGGAGGATACTGAGACCATTAAAGAACACAAAAGAACGA
TCAAGGTGCCCCACTCAGTGGACTGCTTGCAGGGCATTCTCAGCGTGATCCCTTTACAGTTGCTGGCTTTCCACC
TTGCTGTGCTGAGAGGCTATGATGTTGATTTCCACGGAATCTTGCCAAATCTGTGACTGTAGAGTAGGGAATAT
CTATACAAAATGTACGAACTGTATGATTAAGCAACACAAGACACCTTTTGTATTTAAACCTTGATTTAAAATA
TCACCCCTTGAAGCCTTTTTTTAGTAAATCCTTATTTATATATCAGTTATAATTATCCACTCAATATGTGATTT
TTGTGAAGTTACCTCTTACATTTTCCAGTAATTTGTGGAGGACTTTGAATAATGGAATCTATATTGGAATCTGT
ATCAGAAAGATTCTAGCTATTATTTCTTTAAAGAATGCTGGGTGTGCATTTCTGGACCCTCCACTTCAATCTG
AGAAGACAATATGTTTCTAAAAATTGGTACTTGTTCACCATACTTCATTCAGACCAGTGAAAGAGTAGTGCATT
TAATTGGAGTATCTAAAGCCAGTGGCAGTGTATGCTCATACTTGGACAGTTAGGGAAGGGTTTGCCAAGTTTTAA
GAGAAGATGTGATTTATTTTGAATTTGTTTCTGTTTTGTTTTTAAATCAAACGTGAAAACCTTAAACTGAAAA
TTTTATTGGTAGGATTTATATCTAAGTTTGGTTAGCCTTAGTTTCTCAGACTTGTGTCTATTATCTGTAGGTGG
AAGAAATTTAGGAAGCGAAATATTACAGTAGTGCATTGGTGGGTCTCAATCCTTAACATATTTGCACAATTTTAT
AGCACAACTTTAAATTCAAGCTGCTTTGGACAAGTACAATATGATTTTAAATTTGAAGATGGGATGTGTACAT
GTTGGGTATCCTACTACTTTGTGTTTTCACTCCTAAAAGTGTTTTTTATTTTCTTGTATCTGTAGTCTTTTTATT
TTTTAAATGACTGCTGAATGACATATTTTATCTTGTCTTTTAAATCACAAACAGAGCTGCTATTAAATTAATA
TTGATAT

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FIGURE 574

MCGIFAYLNYHVPRTREILETLIKGLQRLEYRGYDSAGVGFDGGNDKDWEANACKTQLIKKKGKVKALDEEVHK
QQDMDLDIEFDVHLGIAHTRWATHGEPSPVNSHPQRSCKNNEFIVIHNGIITNYKDLKKFLESKGYDFESETDTE
TIAKLVKMYDNRESQDTSFTTLVERVIQQLEGAFALVFKSVHFPQGAVGTTRGSPLLIGVRSEHKLSTDHIPIL
YRTGKDKKGSCLNSRVDSTTCLFPVEEKAVEYYFASDASAVIEHTNRVIFLEDDDDVAAVVDGRLSIHRIKRTAGD
HPGRAVQTLQMELOQIMKGNFSSFMQKEIFEQPESSVNTMRGRVNFDDYTVNLGGLKDHKEIQRCRRLILIACG
TSYHAGVATRQVLEELTELPVMVELASDFLDRNTPVFRDDVCFFLSQSGETADTLMGLRYCKERGALTVGITNTV
GSSISRETDCGVHINAGPEIGVASTKAYTSQFVSLVMFALMMCDRISMQERRKEIMLGLKRLPDLIKEVLSMDD
EIQKLATELYHQSVLIMGRGYHYATCLEGALKIKEITYMHSEGILAGELKHGPLALVDKIMPVIMIIMRDHTYA
KCQNALQQVVARQGRPVVICDKEDTETIKNTKRTIKVPHSVDCLQGILSVIPLQLLAFHLAVLRGYDVDFPRNLA
KSVTVE

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FIGURE 575

GGGGAAGGAACACTGTAGGGGATAGCTGTCCACGGACGCTGTCTACAAGACCCTGGAGTGAGATAACGTGCCTGG
TACTGTGCCCTGCATGTGTAAGATGCCCAGTTGACCTTCGCAGCAGGAGCCTGGATCAGGCACTTCCTGCCTCAG
GTATTGCTGGACAGCCCAGACACTTCCCTCTGTGACCATGAAACTCTGGGTGTCTGCATTGCTGATGGCCTGGTT
TGGTGTCTTGAGCTGTGTGCAGGCCGAATTCTTCACCTCTATTGGGCACATGACTGACCTGATTTATGCAGAGAA
AGAGCTGGTGCAGTCTCTGAAAGAGTACATCCTTGTGGAGGAAGCCAAGCTTTCCAAGATTAAGAGCTGGGCCAA
CAAAATGGAAGCCTTGACTAGCAAGTCAGCTGCTGATGCTGAGGGCTACCTGGCTCACCTGTGAATGCCTACAA
ACTGGTGAAGCGGCTAAACACAGACTGGCCTGCGCTGGAGGACCTTGTCTGCAGGACTCAGCTGCAGGTTTTAT
CGCCAACCTCTCTGTGCAGCGGCAGTTCTTCCCCACTGATGAGGACGAGATAGGAGCTGCCAAAGCCCTGATGAG
ACTTCAGGACACATACAGGCTGGACCCAGGCACAATTTCCAGAGGGGAACCTCCAGGAACCAAGTACCAGGCAAT
GCTGAGTGTGGATGACTGCTTTGGGATGGGCCGCTCGGCCCTACAATGAAGGGGACTATTATCATACGGTGTGTG
GATGGAGCAGGTGCTAAAGCAGCTTGATGCCGGGGAGGAGGCCACCACAACCAAGTCACAGGTGCTGGACTACCT
CAGCTATGCTGTCTTCCAGTTGGGTGATCTGCACCGTGCCTTGGAGCTCACCCGCCGCTGCTCTCCCTTGACCC
AAGCCACGAACGAGCTGGAGGGAATCTGCGGTACTTTGAGCAGTTATTGGAGGAAGAGAGAGAAAAACGTTAAC
AAATCAGACAGAAGCTGAGCTAGCAACCCAGAAGGCATCTATGAGAGGCCTGTGGACTACCTGCCTGAGAGGGA
TGTTTACGAGAGCCTCTGTCTGGGGAGGGTGTCAAACCTGACACCCGTAGACAGAAGAGGCTTTTCTGTAGGTA
CCACCATGGCAACAGGGCCCCACAGCTGCTCATTGCCCCCTTCAAAGAGGAGGACGAGTGGGACAGCCCGCACAT
CGTCAGGTACTACGATGTCTGTCTGATGAGGAAATCGAGAGGATCAAGGAGATCGCAAAACCTAAACTTGCACG
AGCCACCGTTTCGTGATCCCAAGACAGGAGTCTCACTGTGCGCAGCTACCGGGTTTTCAAAAAGCTCCTGGCTAGA
GGAAGATGATGACCCGTGTTGTGGCCCGAGTAAATCGTCGGATGCAGCATATCACAGGGTTAACAGTAAAGACTGC
AGAATTGTTACAGGTTGCAAATTATGGAGTGGGAGGACAGTATGAACCGCACTTCGACTTCTCTAGGAATGATGA
GCGAGATACTTTCAAGCATTTAGGGACGGGGAATCGTGTGGCTACTTTCTTAAACTACATGAGTGATGTAGAAGC
TGGTGGTGCCACCGTCTTCCCTGATCTGGGGGCTGCAATTTGGCCTAAGAAGGGTACAGCTGTGTTCTGGTACAA
CCTCTTGCGGAGCGGGGAAGGTGACTACCGAACAAGACATGCTGCCTGCCCTGTGCTTGTGGGCTGCAAGTGGGT
CTCCAATAAGTGGTTCCATGAACGAGGACAGGAGTTCTTGAGACCTTGTGGATCAACAGAAGTTGACTTGACATCC
TTTTCTGTCCTTCCCCTTCCCTGGTCCCTCAGCCCATGTCAACGTGACAGACACCTTTGTATGTTCCCTTGTATGTT
CCTATCAGGCTGATTTTTGGAGAAATGAATGTTTGTCTGGAGCAGAGGGAGACCATACTAGGGCGACTCCTGTGT
GACTGAAGTCCCAGCCCTTCCATTGAGCCTGTGCCATCCCTGGCCCCAAGGCTAGGATCAAAGTGGCTGCAGCAG
AGTTAGCTGTCTAGCGCCTAGCAAGGTGCCTTTGTACCTCAGGTGTTTTAGGTGTGAGATGTTTCAGTGAACCAA
AGTTCTGATACCTTGTTTACATGTTTGTGTTTTATGGCATTCTATCTATTGTGGCTTTACCAAAAAATAAAATGT
CCCTACCAGAAGCCTTAAA

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FIGURE 576

MKLWVSALLMAWFGVLSCVQAEFFTSIGHMTDLIYAEKELVQSLKEYILVEEAKLSKIKSWANKMEALTSKSAAD
AEGYLAHPVNAYKLVKRLNTDWPALDVLQDSAAGFIANLSVQRQFFPTDEDEIGAALKMRLQDTYRLDPGTI
SRGELPGTKYQAMLSVDDCFGMGRSAYNEGDDYHTVLWMEQVLKQLDAGEEATTTKSQVLDYLSYAVFQLGDLHR
ALELTRRLSLDPSHERAGGNLRYFEQLLEEEREKTLTNQTEAELATPEGIYERPVDYLPERDVYESLCRGEVVK
LTPRRQKRLFCRYHHGNRAPQLLIAPFKEEDEWDSPHIVRYDVMSDEEIERIKEIAKPKLARATVRDPKTGVLT
VASYRVSKSSWLEEDDDPVVARVNRMMQHITGLTVKTAELLQVANYGVGGQYEPHFDFSRNDERDTFKHLGTGNR
VATFLNYMSDVEAGGATVFPDLGAAIWPKKGTAVFWYNLLRSGECDYRTRHAACPVLVGCKWVSNKWFHERGQEF
LRPCGSTVD

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FIGURE 577

CGGAGCCAGCGTG GGGAGGCCGCTGCCGTGCGCGCCTTGGTTTTTCTGTTCCTTTTTTTTTTTTTTTTTAACTT
CCTGCCTATCACACGCAGCCATCAGCCCACAAAAGACATGACTACCAACGCGGGCCCCCTTGACCCATACTGGCCT
CAGCACCTAAGACTGGACAACCTTTGTACCTAATGACCGCCCCACCTGGCATATACTGGCTGGCCTCTTCTCTGTC
ACAGGGGTCTTAGTCGTGACCACATGGCTGTTGTCAGGTCGTGCTGCGGTTGTCCCATTGGGGACTTGGCGGCGA
CTGTCCCTGTGCTGGTTTTGCAGTGTGTGGGTTTCATTACCTGGTGATCGAGGGCTGGTTTCGTTCTCTACTACGAA
GACCTGCTTGGAGACCAAGCCTTCTTATCTCAACTCTGGAAAGAGTATGCCAAGGGAGACAGCCGATACATCCTG
GGTGACAACCTTCACAGTGTGCATGGAAACCATCACAGCTTGCCTGTGGGGACCACTCAGCCTGTGGGTGGTGATC
GCCTTTCTCCGCCAGCATCCCCTCCGCTTCATTCTACAGCTTGTGGTCTCTGTGGGCCAGATCTATGGGGATGTG
CTCTACTTCCTGACAGAGCACCGCGACGGATTCCAGCACGGAGAGCTGGGCCACCCTCTCTACTTCTGGTTTTAC
TTTGTCTTCATGAATGCCCTGTGGCTGGTGCTGCCTGGAGTCCTTGTGCTTGATGCTGTGAAGCACCTCACTCAT
GCCCAGAGCACGCTGGATGCCAAGGCCACAAAAGCCAAGAGCAAGAAGAACTTGAGGAGTGGTGGACCAGGCTCGA
ACACTGGCCGAGGAGGAGCTCTCTGCCTGCCAGAAGAGTCTAGTCCTGCTCCACAGTTTGGAGGGACAAAGCTA
ATTGATCTGTCACTCAGGCTCATGGGCAGGCACAAGAAGGGGAATAAAGGGGCTGTGTGAAGGCACTGCTGGG
AGCCATTAGAACACAGATACAAGAGAAGCCAGGAGGTCTATGATGGTGACGATTTTTTAAATCAGGAAATAAAAG
ATCTTGACTCTAAAAAAAAAAAAA

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FIGURE 578

MTTNAGPLHPYWPQHLRLDNFVPNDRPTWHILAGLFSVTGVLVVTTWLLSGRAAVVPLGTWRRSLCWFVAVCGFI
HLVIEGWFLVLYYEDLLGDQAFLSQLWKEYAKGDSRYILGDNFTVCMETITACLGPLSLWVVIAFLRQHPLRFIL
QLVVSVGQIYGDVLYFLTEHRDGFQHGELGHPLYFWFYFVFMNALWLVLPGVLVLDVAVKHLTHAQSTLDAKATKA
KSKKN

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FIGURE 579A

GCAC TGCTGCTGCCACCGCCGTCGCCGCCGCGCCGCCGCGCCGCTGCTGCTGCCGGTGCTAAGGAGTTCGCTGGA
GCCCTTTCCTCAGACCCGGCCCGGTCTTCGCGCCCGGACTCCTGGCGCCAGCGCTAGGCGCACTCACCGCTCTGA
CGGGTGACAGCGCGGGAGTTGTCCCAGACTGTGGAGTGGCGGGCACGGCCCCAGCCCCCTTCCCTTCCCTGACC
CCTTCTTGCCATCGCCCCAGACATGGGGAACGCGGGCGACCGCCAAGAAAGGCAGCGAGGTGGAGAGCGTGAAAGA
GTTTCTAGCCAAAGCCAAAGAAGACTTTTTGAAAAATGGGAGAATCCAACCTCAGAATAATGCCGGACTTGAAGA
TTTTGAAAGGAAAAAACCTTGGAACAGGTTTCATTTGGAAGAGTCATGTTGGTAAACACAAAGCCACTGAACA
GTATTATGCCATGAAGATCTTAGATAAGCAGAAGGTTGTTAAACTGAAGCAAATAGAGCATACTTTGAATGAGAA
AAGAATATTACAGGCAGTGAATTTTCCTTTCTTGTTCGACTGGAGTATGCTTTTAAGGATAATTCTAATTTATA
CATGGTTATGGAATATGTCCCTGGGGGTGAAATGTTTTACATCTAAGAAGAATTGGAAGGTTTCAGTGAGCCCCA
TGCACGGTTCTATGCAGCTCAGATAGTGCTAACATTTCGAGTACCTCCATTCACTAGACCTCATCTACAGAGATCT
AAAACCTGAAAATCTCTTAATTGACCATCAAGGCTATATCCAGGTCACAGACTTTGGGTTTGCCAAAAGAGTTAA
AGGCAGAACTTGGACATTATGTGGAACCTCAGAGTATTTGGCTCCAGAAATAATTCTCAGCAAGGGCTACAATAA
GGCAGTGGATTGGTGGGCATTAGGAGTGCTAATCTATGAAATGGCAGCTGGCTATCCCCATTCTTTGCAGACCA
ACCAATTCAGATTTATGAAAAGATTGTTTCTGGAAAGGTCCGATTCCCATCCCACTTCAGTTCAGATCTCAAGGA
CCTTCTACGGAACCTGCTGCAGGTGGATTTGACCAAGAGATTTGGAAATCTAAAGAATGGTGTCTAGTGATATAAA
AACTCACAAGTGGTTTGCCACGACAGATTGGATTGCTATTTACCAGAGGAAGGTTGAAGCTCCATTTCATACCAAA
GTTTAGAGGCTCTGGAGATACCAGCAACTTTGATGACTATGAAGAAGAAGATATCCGTGTCTCTATAACAGAAAA
ATGTGCAAAAGAATTTGGTGAATTTTAAAGAGGAACAAGATGACATCTGAGCTCACACTCAGTGTTTGCACTCTG
TTGAGAGATAAGGTAGAGCTGAGACCGTCCTTGTGTAAGCAGTTACCTAGTTCCTTCATTCCAACGACTGAGTGA
GGTCTTTATTGCCATCATCCCGTGTGCGCACTCTGCATCCACCTATGTAACAAGGCACCGCTAAGCAAGCATTGT
CTGTGCCATAACACAGTACTAGACCCTTTCTTACTTCTCTTTGGGTTGTCTTTCTCCTCTCCTACATCCATTTC
TTCCTTTTCCAATTTTCATTGGTTTTCTCTAAACAGTGCTCCATTTTATTTTGTGGTGTTCAGATGGGCAGTGT
TATGGCTACGTGATATTTGAAGGGAAGGATAAGTGTGCTTTTCAGTAGTTATTGCCAATATTGTTGTTGGTCAAT
GGCTTGAAGATAAACTTTCTAATAATTATTTCTTTGAGTAGCTCAGACTTGGTTTTGCCAAAACCTCTTGGTA
ATTTTTGAAGATAGACTGTCTTATCACCAAGGAAATTTATACAAATTAAGACTAATTTCTTGAATTCACTATT
CTGGCAATAAAATTTTGGTAGACTAATACAGTACAGCTAGACCCAGAAATTTGGAAGGCTGTAGATCAGAGTTCT
AGTTCCCTTTCCCTCCTTTTATATCCICCTCTCCTTGAGTAATGAAGTGACCAGCCTGTGTAGTGTGACAAACGT
GTCTCATTTCAGCAGGAAAACTAATGATATGGATCATCACCCAGATTCTCTCACTTGGTACCAGCATTCTGTAG
GTATTAGAGAAGAGTTCTAAGTTTTCTAAACCTTAAGTTCCTTAAGGATTTTAGCCAGTATTTTAATAGAACA
TGATTAATGAAAGTGACAAATTTTAAATTTTCTCTAATAGTCCTCATCAAACTTTTTAAAGGAAAATAAGCAA
ACTAAAAAGAACATTGGTTTAGATAAATACTTATACTTTGCAAAGTCAAAAATGGCTTGATTTTTGGAAACAATA
TAGAGGTATTCAATTTAAATGAGGGTTTACATTGTTTTGTTTTGTAACCGTTAAAAAGAAGTTGTTTCCAGCT
AATTATTGTTGGTGTACTATATTTGTGAGCCTAGGGTAGGGGCACTGCTGCAACTTCTGCTTTCATCCCATGCCTC
ATCAATGAGGAAAGGGAACAAAGTGTATAAACTGCCACAATTGTATTTTAAATTTGAGGTATGATATTTTCTAGA
TATTTCTAATTTCTAACCTCTGTTCTCTCAGTAAACAGAATGTCTGATCGATCATGCAGATACAATGTTGGTAT
TTGAGAGGTTAGTTTTTTTCTTACACTTTTTTTTGCCAACTGACTTAACAACATTGCTGTCTCAGGTGGAAATTTCA
AGCACTTTTGCACATTTAGTTCAGTGTTTGTGAGAATCCATGGCTTAACCCACTTGTTTTGCTATTTTTTTCTT
TGCTTTTAAATTTCCCATCTGATTTTATCTCTGCGTTTCAGTGACCTACCTTAAAAACAACACAGAGAAGAGTT
AACTGGGTTTCATTTTAAATGATCAATTTACCTGCATATAAAATTTATTTTAAATCAAGCTGATCTTAATGTATAT
AATCATTCTATTTGCTTTATTATCGGTGCGAGGTAGGTCATTAAACACCACTTCTTTTCATCTGTACCACACCCTGG
TGAAACCTTTGAAGACATAAAAAAACCTGTCTGAGATGTTCTTTCTACCAATCTATATGTCTTTCGGTTATCAA
GTGTTTCTGCATGGTAATGTCTATGTAATGCTGATATTGATTTCACTGGTCCATCTATATTTAAACGTTGCAAGA
AAAAATAAAATACTCTGCTCTAGCAAGTTTTGTGTAACAAAGGCATATCGTCATGTTAATAAATTTAAACATC
ATTCGTATAAAATATTTTAAATTTCTTGTATTTTCATTTAGACCCAAGAACATGCTGACCAATGTGTTCTATATGT
AACTACAAATTTCTATGGTAGCTTTGTGTATATTATTGTAAATTTATTTTAAATAAGTCATGGGGATGACAATTT
GATTATTACAATTTAGTTTTTCAGTAATCAAAAAGATTTCTATGAATTTCTAAAAATATTTTTTTCTATGAAATTA
CTAGTGCCAGCTGTAGAATCTACCTTAGGTAGATGATCCCTAGACATACGTTGGTTTTGAGGGCTATTTCAGCCA
TTCCATTTTACTCTCTATTTAAAGGCCGTGAGCAAGCTTGTCTATGAGCAAATATGTCAAGGGAGTCAATTTCTGA

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FIGURE 579B

CCAATCAAGTACACTAAATTAGAATATTTTTAAAGTATGTAACATTCCCAGTTTCAGCCACAATTTAGCCAAGAA
TAAGATAAAAACTTGAATAAGAAGTAAGTAGCATAAATCAGTATTTAACCTAAAATTACATATTTGAAACAGAAG
ATATTATGTTATGCTCAGTAAATAATTAAGAGATGGCATTGTGTAAGAAGGAGCCCTAGACTGAAAGTCAAGACA
TCTGAATTTTCAGGCTGGAAAACCTATCAGTATGATCTCAGCCTCAGTTCTTGTCTGTAAAATGGAAGAAGTGGAA
TTAGGCAGTTTGTAAAGATTCTCCTAACTTTACAGTCGATGACAAGATTGTCTTTTTATCTGATATTTTGAAGG
GTATATTGCTTTGAAGTAAGTCTCAATAAGGCAATATATTTAGGGCATCTTTCTTCTTATCTCTGACAGTGTTT
TTAAAATTATTTGAATATCATAAGAGCCTTGGTGTCTGTCTAATTCCTTTCTCACTCACCGATGCTGAATACCC
AGTTGAATCAAACGTCAACCTACCAAAAACGATATTGTGGCTTATGGGTATTGCTGTCTCATTCTTGGTATATT
CTTGTGTTAACTGCCCATTGGCCTGAAAATACTCATTGTAAGCCTGAAAAAAAAAATCTTCCCAGTGTTC
TGCTTGTTGTAAGAATCAAATGAAATAATGTATGTGAAAGCACCTTGTAAGTGTAACTGTAACTATCAATGTAAATGT
TAAGGTGTGTTGTTATTTTATTAATTACTTCTTTGTTTAGAATGGAATTCCTATGCACTACTGTAGCTAGGAAA
TGCTGAAAACAACGTGTGTTTTTTAATTAATCAATAACTGCAAAATTAAAGTACCTTCAATGGATAAGCCAAAAAA
ATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTCGATATCAGCTTATCATAACC

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FIGURE 580

HCCCHRRRRRAAAPLLLPVLRSSLEFPFPQTRPGLRARTPGASARRTHRS DGCRRGSCPRLWSGGHGPSPPSLPXP
LLAIAPDMGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLGTGSFGRVMLVKHKATEQ
YYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVMEYVPGGEMFSLRRIGRFSEPH
ARFYAAQIVLTFEYLSLDLIYRDLKPENLLIDHQGYIQVTDGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNK
AVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLT KRFGNLKNGVSDIK
THKWFATTDWIAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEDIRV SITEKCAKEFGEF

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FIGURE 581

CCAGCCCCCTTCCCTTCCCTGACCCCTTCTTGCCATCGCCCCAGAC**ATG**GGGAACGCGGCGACCGCCAAGAAAG
GCAGCGAGGTGGAGAGCGTGAAAGAGTTTCTAGCCAAAAGCCAAAGAAGACTTTTTGAAAAAATGGGAGAAATCCAA
CTCAGAAATAATGCCGGACTTGAAGATTTTGAAAGGAAAAAAACCCCTTGGAACAGGTTTCATTTGGAAGAGTCATGT
TGGTAAAAACACAAAGCCACTGAACAGTATTATGCCATGAAGATCTTAGATAAGCAGAAGGTTGTTAAACTGAAGC
AAATAGAGCATACTTTGAATGAGAAAAGAATATTACAGGCAGTGAATTTTCCTTTTCCTTGTTGACTGGAGTATG
CTTTTAAGGATAATTCTAATTTATACATGGTTATGGAATATGTCCCTGGGGGTGAAATGTTTTACATCTAAGAA
GAATTGGAAGGTTTCAGTGAGCCCCATGCACGGTTCTATGCAGCTCAGATAGTGCTAACATTTCGAGTACCTCCATT
CACTAGACCTCATCTACAGAGATCTAAAACCTGAAAATCTCTTAATTGACCATCAAGGCTATATCCAGGTCACAG
ACTTTGGGTTTGCCAAAAGAGTTAAAGGCAGAACTTGGACATTATGTGGAACCTCAGAGTATTTGGCTCCAGAAA
TAATTCTCAGCAAGGGCTACAATAAGGCAGTGGATTGGTGGGCATTAGGAGTGCTAATCTATGAAATGGCAGCTG
GCTATCCCCCATTTCTTTCAGACCAACCAATTCAGATTTATGAAAAGATTGTTTCTGGAAAGGTCCGATTCCCAT
CCCCTTCAGTTCAGATCTCAAGGACCTTCTACGGAACCTGCTGCAGGTGGATTTGACCAAGAGATTTGGAAATC
TAAAGAATGGTGTCAGTGATATAAAAACTCACAAGTGGTTTGCCACGACAGATTGGATTGCTATTTACCAGAGGA
AGGTTGAAGCTCCATTCATACCAAAGTTTAGAGGCTCTGGAGATACCAGCAACTTTGATGACTATGAAGAAGAAG
ATATCCGTGTCTCTATAACAGAAAAATGTGCAAAAGAATTTGGTGAATTT**TAA**AGAGGAACAAGATGACATCTGA
GCTCACACTCAGTGTTTGCCTCTGTTGAGAGATAAGGTAGAGCTGAGACCGTCCTTGTTGAAGCAGTTACCTAG
TTCCTTCATTCCAACGACTGAGTGAGGTCTTTATTGCCATCATCCGTGTGCGCACTCTGCATCCACCTATGTAAC
AAGGCACCGCTAAGCAAGCATTGTCTGTGCCATAACACAGTACTAGACCCTTTCTTACTTCTCTTTGGGTTGTC
TTTCTCCTCTCCTACATCCATTTCTTCCTTTTCAATTTTCATTGGTTTTCTCTAAACAGTGCTCCATTTTATTTTG
TTGGTGTTTCAGATGGGCAGTGTTATGGCTACGTGATATTTGAAGGGAAGGATAAGTGTTGCTTTTCAGTAGTTAT
TGCCAATATTGTTGTTGGTCAATGGCTTGAAGATAAACTTTCTAATAATTATTATTTCTTTGAGTAGCTCAGACT
TGGTTTTTGCCAAAACCTCTTGGTAATTTTTGAAGATAGACTGTCTTATCACCAAGGAAATTTATACAAATTAAGAC
TAACTTTCTTGGAATTCATATTCTGGCAATAAATTTTGGTAGACTAATACAGTACAGCTAGACCCAGAAATTTG
GAAGGCTGTAGATCAGAGGTTCTAGTTCCTTTCCCTCCTTTTATATCCTCCTCCTTGAGTAATGAAGTGACC
AGCCTGTGTAGTGTGACAAACGTGTCTCATTTCAGCAGGAAAACTAATGATATGGATCATCACCAGATTCTCTC
ACTTGGTACCAGCATTCTGTAGGTATTAGAGAAGAGTTCTAAGTTTTCTAAACCTTAACTGTTCCCTTAAGGATT
TTAGCCAGTATTTTAATAGAACATGATTAATGAAAGTGACAAATTTTAAATTTTCTCTAATAGTCCTCATCATAA
ACTTTTTAAAGGAAAAATAAGCAAACCTAAAAAGAACATTGGTTTAGATAAAATACTTATACTTTGCAAAGTCAAAAA
TGGCTTGATTTTTGGAACAATATAGAGGTATTCATATTTAAATGAGGGTTTACATTTGTTTTGTTTTGTAACCG
TTAAAAAGAAGTTGTTTCCAGCTAATTATTGTGGTGTACTATATTTGTGAGCCTAGGGTAGGGGCACTGCTGCAA
CTTCTGCTTTTCATCCCATGCCTCATCAATGAGGAAAGGGAACAAAGTGATAAAACCTGCCACAATTGTATTTTA
ATTTTGAGGTATGATATTTTCAGATATTTCTAATTTCTAACCTCTGTTCTCTCAGTAAACAGAATGTCTGATCG
ATCATGCAGATACAATGTTGGTATTTGAGAGGTTAGTTTTTTTCTACACTTTTTTTTGCCAACTGACTTAACAA
CATTGCTGTGAGGTGGAATTTCAAGCACTTTTGCACATTTAGTTCAGTGTTTGTGAGAATCCATGGCTTAACC
CACTTGTTTTGCTATTTTTTTCTTTGCTTTTAATTTTCCCCATCTGATTTTATCTCTGCGTTTCAGTGACCTACC
TTAAAACAACACACGAGAAGAGTTAACTGGGTTTCATTTTAAATGATCAATTTACCTGCATATAAAATTTATTTTT
AATCAAGCTGATCTTAATGTATATAATCATTCTATTTGCTTTATTATCGGTGCAGGTAGGTCATTAACACCCTT
CTTTTCATCTGTACCACACCCTGGTGAAACCTTTGAAGACATAAAAAAAACCTGTCTGAGATGTTCTTTCTACCA
ATCTATATGTCTTTCGGTTATCAAGTGTTTCTGCATGGTAATGTATGTAATGCTGATATTGATTTCACTGGTC
CATCTATATTTAAAACGTGC

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FIGURE 582

MGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTTLGTGSFGRVMLVKHKATEQYYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVMEYVPGGEMFSLRRIGRFSEPHARFYAAQ
IVLTFFEYLSLDLIYRDLKPENLLIDHQGYIQVTDGFAKRVKGRWTLCGTPEYLAPEIILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIKTHKWFAT
TDWIAIYQRKVEAPFIPKFRGSGDTSNFDYEEEDIRVSITEKCAKEFGEF

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FIGURE 583A

[illegible]

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FIGURE 583B

GAGATCCTCAAAAAAGGCCCTCCTCTGTGGCTGGCAGCCTCTGACCTTCCCTGGGCTTCAAAGGAAGGCTATGG
AGTTTGCTGTGGGCCCTGCAACCTTCCCAGCCACTCCTGCTGCACTAAGGACTTAGGATCCTTTTATCACAAATC
GGGATTCTCTCCCCACCCCGAATTCTGTCTGCTTAAACTGGAATACACAGGAGCCCTTCCTGGCCTGGATGGTG
TCTCCCAGCTTCCCCGCCAGCTTGCCACCCCATAGTTGGTGAGATGCCAAGTTTGGTCTGAGTTGTGACCCCT
TCAGAGTAGATGCCCCGCCAGGCTGGGGTTGGCCCCCTGGAGGGTCAGGGGACCATCTTCTTATTCCCTCTTTTCTC
ATTCCCTCCAACCTTCCCTCCCCTCCTTCAATTATTTTTTTGTAAAGTTGATGCCTTACTTTTTGGATAAAATATTTT
GAAGCTGGTATTTCTATTTCTTTGGATTTTTTTTAATGTAAGGTTGTTTTGGGGGATGGAGTTAGAACCTTAAT
GATAATTTCTTTCGTTTGGTGTAGGTTTTAGAGATTTGTTTTGTGGAGAGGTTTTTTCTTTTGATGTAATAAAA
TTTAAATGGAAATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 584

MEEGARHRNNTTEKKHPGGGESDASPEAGSGGGGVALKKEIGLVSACGIIVGNIIGSGIFVSPKGVLENAGSVGLA
LIVWIVTGFITVVGALCYAELGVTIPKSGGDYSYVKDIFGGLAGFLRLWIAVLVIYPTNQAVIALTFSNYVLQPL
FPTCFPPESGLRLLAAICLLLLTWVNCSSVRWATRVQDIFTAGKLLALALIIIMGIVQICKGEYFWLEPKNAFED
FQEPDIGLVALAFLQGSFAYGGWNFLNYVTEELVDPYKNLPRAIFISIPLVTFVYVFANVAYVTAMSPQELLASN
AVAVTFGEKLLGVMWIMPISVALSTFGGVNGSLFTSSRLFFAGAREGHLPSVLAMIHVKRCTP IPALLFTCIST
LLMLVTSDMYTLINYVGFINYLFYGGTVAGQIVLRWKKPDIPRPIKINLLFP IIYLLFWAFLLVFSLWSEPVC
IGLAIMLTGVPVYFLGVYWQHKPKCFSDFIELLTLVSQKMCVVVYPEVERGSGTEEANEDMEEQQQPMYQPTPTK
DKDVAGQQQP

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FIGURE 585A

CCCCGGCGAGCCCGCCGTGCGCACAGCTCTGCCCGCCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGGCGTTCT
CCCCGGTTCTAGCAAAGCCCCCGGGGTGCCCATCAGTTTCCTTGGGTGACTACAGCGTGTGTTTTTCTTTTCCT
CTTTCCCCTGCCTGTGTGCCCTTCTCCAGGATGGCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCA
GAAAAAAGAAAGAGGCAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
TCCAAGTCCAAAGTGCTTCGGGAGAAATGGCTGCTGCAGGGCATAACCGCTGGAAGTCCGAAGAGGAGGAAGCC
AGGAGGCGGCAGTCTGAAGAGGATGAGTTCAGAGTCAAGCAACTGAAGATAACATTTCAGAGGCTGGAGCAAGAA
ATACAAACGCTAGAAAGTGAAGAGTCCAGATATCTGCCAAAGAGCAAATCATCCTAGAGAACTGAAGGAAACA
GAAAAATCCTTCAAGGACTTTTCAAGGGTTTCTCCAGTACGGATGGAGATGCAGTAAATTACATTTCTCCAG
CTTCCCGACCTGCCAATCCTCTGTTCACGAACAGCAGAACCATCACCTGGGCAGGACGGGACCAGCAGAGCGGCT
GGAGTCGGGTGGGAGAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTCGAACGCCACAGAAACATCCGGCCCAGAC
ATGACTATCAAGAAGCCTCCCCAGCTTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAACATAGTGCC
ACCTCCTGGAGCCTGCTGCCAGCTCTCTTTCCCAGATCACAAAACATGGAAATTGAGGTGTCTGTTGCAGAA
TGTAAGGTGTTTCTGGAATCACCTCTACCCACATCCCATGGACCATCCCTCCGCTTTTCTATTACCCCCGCAT
AATGGCCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
CTAGAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAGCCTGGTGCAGTG
GTTCTGGTGGGCGGCCTAAGCCCCCTGTCCACGAGGCGACCCAGCCAGAACCCACTGAAAGAACAGCTAGCCGG
CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAATGGCCAT
TCCCCAGCCAGCCTAGAGATGCGCTGGGGGACAGCCTGCAGGTGCCTGTGAGCCCCAGCTCCACAACCAGCTCA
CGGTGTTCTTCCCAGATGGAGAGTTCACTCTCACCACTGAAAAAGGAGGCCAAGTTTGAGCTGCGTGCCTTC
CATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAGAAAGAACAATACTGCATTAGAAAAGTG
AGGCCTTCAGAGGAGATGCTGGAGCTGGAAGGAGAGGAGAGAGCTCATCCGCAGCCAGGCCGTCAAGAAGAAT
CCTGGCATTGCAGCAAAATGGTGGAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTG
GAGTCGCACAAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAGCAGTTA
CAGCAGCAGCAGCAGCAGCCCCATCGCAGCTCTGCACAGCCCTGCCTCTTCTCATGAACGCGCAAGCATGATT
GACAAAGCAAAGGAGGACATTGTACAGAGCAGATAGATTTCTCTGCTGCTCGAAACAATTTAGCTGATGGAG
AATTCCAGGCAAGCGGTGGCCAAGGGCCAGAGTACACCCAGGCTGTTCTCCATCAAGCCTTTCTACAGGCCTCTG
GGGTCACTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTCTGTGCGGGGACCTCCAGAAGACAGTGGT
GCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAAACTGTGGGCTGAGGAT
GGAGAATTTACGAGCGCCCGGGCTGTCTCTCACTGTGGTCAAGGATGATGACCATGGGATTTTGGATCAGTTCTCA
AGATCTGTCAATGTCTCCTTGACCAAGAGGAGCTTGACTCTGGTCTGGACGAATTGTGCGGTGAGGTCTCAGGAT
ACCACAGTCTTGAGACCCTATCCAATGATTTTCTGCTGCCCCAGACACCACAACTGACAACCCCTCAGAG
ACCAATGCCCTCCAGGAAAATTTACTGGCTGATTTTCTCTGCCCCAGACACCACAACTGACAACCCCTCAGAG
GGCCGAGGAGAAGGCGTCTCCAAGTCATTTAGTGATCATGGTTTCTATTCCCCTTCCACGCTGGGGGACTCT
CCGTGTTGATGACCCCTTGAGTATCAGGCTGGCCTCCTGGTGCAGAATGCCATTCAACAAGCCATAGCCGAG
CAGGTGGATAAAGCTGTGTCCAAAACAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
GCTGAAGCTGCGGCTTTCGGCTCAGAAAAGCCTCAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCTGTTCAA
GAGAAAAGGGATGTATTACCAAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGGCCCCCCCCAGCCA
CTGCCAGCTGTGCAGCCAGTGGCCCGATTAAACATGGAGGAGACCAGGCCCGAAGGAAGCTATTTTACGCAAGTAC
TCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGACGTGATGGTTGGGCCTTTC
AAGCTGAGGTCCAGGAAACAGCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAGAG
GAGCTGAAGAGGCAGAGACAAGTCTTGAGAGTACGCAGAGCCCCAGGACAAAGAATGCCCCATCACTGCCCTCC
AGAACATGCTACAAAAGTCTCCAGGGAAAATAGAGAAAGTCAAACCTCCTCCATCCCCACCCTGAAGGCCCC
AGCCTGCAGCCTGACTTAGCCCCGTAAGAGGCTGCCGGAACCCAGCGGCCCAAGAATCTGATGCAGACCCTCATG
GAAGACTATGAGACACACAAATCTAAAAGGCGCGAGAGAATGGATGATAGTAGTTACACTTCTAAGTTACTGTCT
TGCAAGGTGACTTCCGAGGTCTCGAGGCCACACGGGTAAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAA
GCAGGGATCTATGCCAACAGGAGGAAGAAGACAACGAATTAACCTTCTTCAACCCAGGAAGCGTCTTTGGTGCT
TGGGAGACCAAGAAACCAAGAAATTAACAACCTGAAAGCATTTTAATGGACTATTTATTAAAGTGCAACAAACTC

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FIGURE 585C

TGGTGAATATATTCCATTTTAGTTAAAGAACAAATTCCTGAATTTTAAGCATTGAGCTGCCAATTTGAT
TTTGTGTTGCTCTTTACCCAAATTATTTTTCTTTGTTTTCTTTTTTGGGGGAGGAGGGGAAAAAGCAGCAA
TACTGIGTTTGAAATTATACTCTGTATCTGGTTTCCTGTGTATGTTAACCACCTAAATGTTATTATCCTGCTT
TGGTTTATAGAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTCTCATTAAAATCCAATGTGTGTTGAG
TTTTTATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 586

MAEAEELHKERLQAIAEKRRQTEIEGKRQQLDEQILLLOHHSKSKVLREKWLLQGIPAGTAEIEEEARRRQSEDEF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLKETESFKDFQKGFSSTDGDAVNYISSQLPDLPIILCSR
TAEPSPGQDGTSTRAAGVGWENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNYSATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPMDHPSAFYSPPHNGLLTDHHESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTIASRQAPPHIELSNSSPDPMAEAERTNGHSPSQPRDALG
DSLQVPVSPSSSTSSRCSSRDGEFTLTTLKKEAKFELRAFHEDKKPSKLFEDDEHEKEQYCIKVRPSEEMLELE
KERRELIRSQAVKKNPGIAAKWVNPPQEKTIIEQLDEEHLESHKKYKERKERRAQEQQLLQKQLQQQQQQPPSQ
LCTAPASSHERASMIDKAKEDIVTEQIDFSAARKQFQLMENSQRQAVAKGSTPRLFSIKPFYRPLGSVNSDKPLT
NPRPPSVGGPPEDSGASAAKGQKSPGALETPSAAGSQGNTASQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQDITVLETLSNDFSMNIDSGASNETTNALQENSLA
DFSLPQTPQTDNPSEGRGEGVSKSFSDHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPPEATVEEAEEAAFGSEKPSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGPPQPLPAVQPSGPI
NMEETRPEGSYFSKYSEAAELRSTASLLATQESDVMVGPFKLRSRKQRTLMIIEEIRAAQEREELKRQRQVLQ
STQSPRTKNAPSLPSRTCYKTAPGKIEKVKPPPSPTTEGPSLQPDLAPEEAAGTQRPKNLMQTLMEDYETHSKR
RERMDDSSYTSKLLSCKVTSEVLEATRNVNRRKSALALRWEAGIYANQEEEDNE

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FIGURE 587A

CCCCGGGCGAGCCCCGCGTGCGCACAGCTCTGCCCGCCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGGCGTTCT
CCCCGGTTCTAGCAAAGCCCCCGGGGTGCCCATCAGTTTCCTTGGGTGACTACAGCGTGTGTTTTTCTTTCCCT
CTTTCCCTGCTGTGTGCCCTTCTCCAGGATGGCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCA
GAAAAAAGAAAGAGGCAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
TCCAAGTCCAAAGTGCTTCGGGAGAAATGGCTGCTGCAGGGCATAACCCGCTGGAAGTCCGAAGAGGAGGAAGCC
AGGAGGCGGCAGTCTGAAGAGGATGAGTTCAGAGTCAAGCAACTTGAAGATAACATTGAGAGGCTGGAGCAAGAA
ATACAAACGCTAGAAAGTGAAGAGTCCAGATATCTGCCAAAGAGCAAATCATCCTAGAGAACTGAAGGAAACA
GAAAAATCCTTCAAGGACTTTCAGAAGGGTTTCTCCAGTACGGATGGAGATGCAGTAAATTACATTTCTCCAG
CTTCCCGACCTGCCAATCCTCTGTTCACGAACAGCAGAACCATCACCTGGGCAGGACGGGACCAGCAGAGCGGCT
GGAGTCGGGTGGGAGAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTCGAACGCCACAGAAACATCCGGCCCAGAC
ATGACTATCAAGAAGCCTCCCCAGCTTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAACATAGTGCC
ACCTCCTGGAGCCTGCTGCCAGCTCTCTTTCCCGAGATCACAAAACATGGAAATTGAGGTGTCTGTTGCAGAA
TGTAAGGTGTTTCTGGAATCACCTCTACCCACATCCCATGGACCATCCCTCCGCTTTCTATTACCCCCGCAT
AATGGCCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
CTAGAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAGCCTGGTGCAGTG
GTTCTGGTGGGCGGCCTAAGCCCCCTGTCCACGAGGCGACCCAGCCAGAACCCACTGAAAGAACAGCTAGCCGG
CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAATGGCCAT
TCCCCAGCCAGCCTAGAGATGCGCTGGGGGACAGCCTGCAGGTGCCTGTGAGCCCGAGCTCCACAACCAGCTCA
CGGTGTTCTTCCCGAGATGGAGAGTTCACTCTCACCACTGAAAAAGGAGGCCAAGTTTGAGCTGCGTGCCTTC
CATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAGAAAGAACAATACTGCATTAGAAAAGTG
AGGCCTTCAGAGGAGATGCTGGAGCTGGAAGGAGAGAGAGAGCTCATCCGCAGCCAGGCCGTCAAGAAGAAT
CCTGGCATTGCAGCAAAATGGTGGAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTG
GAGTCGCACAAAAAGTACAAGGAGCGCAAGAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAGCAGTTA
CAGCAGCAGCAGCAGCAGCCCCCATCGCAGCTCTGCACAGCCCTGCCTCTTCTCATGAACGCGCAAGCATGATT
GACAAAGCAAAGGAGGACATTGTACAGAGCAGATAGATTTCTCTGCTGCTCGAAACAATTTAGCTGATGGAG
AATTCCAGGCAAGCGGTGGCCAAGGGCCAGAGTACACCCAGGCTGTTCTCCATCAAGCCTTTCTACAGGCCTCTG
GGGTGAGTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTCTGTGCGGGGACCTCCAGAAGACAGTGGT
GCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAAACTGTGGGCTGAGGAT
GGAGAATTTACGAGCGCCCGGGCTGTCTCTCACTGTGGTCAAGGATGATGACCATGGGATTTTGGATCAGTTCTCA
AGATCTGTCAATGTCTCCTTGACCCAAGAGGAGCTTGACTCTGGTCTGGACGAATTGTGCGGTGAGGTCTCAGGAT
ACCACAGTCTTGAGACCCTATCCAATGATTTAGCATGGACAACATCAGTGACAGCGGGGCATCCAATGAGACA
ACCAATGCCCTCCAGGAAAATTTACTGGCTGATTTTCTCTGCCCGAGACACCACAAACTGACAACCCCTCAGAG
GGCCGAGGAGAAGGCGTCTCCAAGTCATTTAGTGATCATGGTTTCTATTCCCCTTCTCCACGCTGGGGGACTCT
CCGTTGGTTGATGACCCCTTGAGTATCAGGCTGGCCTCCTGGTGCAGAATGCCATTCAACAAGCCATAGCCGAG
CAGGTGGATAAAGCTGTGTCCAAAACAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
GCTGAAGCTGCGGCTTTCGGCTCAGAAAAGCCTCAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCTCTGTTCAA
GAGAAAAGGGATGTATTACCAAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGGCCCCCCCCAGCCA
CTGCCAGCTGTGCAGCCAGTGGCCCGATTAAACATGGAGGAGACCAGGCCCGAAGGAAGCTATTTTACAGCAAGTAC
TCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGACGTGATGGTTGGGCCTTTC
AAGCTGAGGTCCAGGAAACAGCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGGAAGAG
GAGCTGAAGAGGCGAGAGACAAGTCTTGAGAGTACGCAGAGCCCCAGGACAAAGAATGCCCCATCACTGCCCTCC
AGAACATGCTACAAAAGTCTCCAGGGAAAATAGAGAAAAGTCAAACCTCCTCCATCCCCACCCTGAAGGCCCC
AGCCTGCAGCCTGACTTAGCCCTGAAGAGGCTGCCGGAACCCAGCGGCCAAGAATCTGATGCAGACCCCTCATG
GAAGACTATGAGACACACAAATCTAAAAGGCGCGAGAGAATGGATGATAGTAGTTACACTTCTAAGTTACTGTCT
TGCAAGGTGACTTCCGAGGTCTCGAGGCCACACGGGTAAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAA
GCAGGGATCTATGCCAACAGGAGGAAGAAGACAACGAATAAACTTCTTCAACCAGGAAGCGTCTTTGGTGCT
TGGGAGACCAAGAAACCAAGAAATTAACAAGTGAAGCATTTTAAATGGACTATTTATTAAAGTGAAACAAACTC

[illegible]

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FIGURE 587C

TGGTGAATATATTCCATTTTAGTTAAAGAACAAATTCCTGAATTTTAAGCATTTCAGTGAGCTGCCAATTTTGAT
TTTGTGTTGCTCTTTACCCAAATTATTTTTTCTTTGTTTTCTTTTTTGGGGGAGGAGGGGAAAAAGCAGCAA
TACTGTGTTTGAAATTATACTCTGTATCTGGTTTTCTGTGTATGTTAACCACCTTAAATGTTATTATCCTGCTT
TGGTTTTAGAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTTCTCATTAAAATCCAATGTGTGTTGAG
TTTTTATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 588

MAEAEELHKERLQAIAEKRRQTEIEGKRQQLDEQIILLQHSSKSVLREKWLLQGIPAGTAESEEEARRRQSEDEF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLKETEKSFKDFQKGFSSSTDGDAVNYISSQLPDLPLILCSR
TAEPSPGQDGTSTRAAGVGWENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNYSATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPMDHPSAFYSPPHNGLLTDHHESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNSSPDPMAEAERTNGHSPSQPRDALG
DSLQVPVSPSSTTSSRCSSRDGEFTLTTLKKEAKFELRAFHEDKKPSKLFEDDEHEKEQYCIKVRPSEEMLELE
KERRELIRSQAVKKNPGIAAKWWNPPQEKTIIEQLDEEHLESHKKYKERKERRAQEQQLLQKQLQQQQQQPPSQ
LCTAPASSHERASMIDKAKEDIVTEQIDFSAARKQFQLMENSRQAVAKGQSTPRLFSIKPFYRPLGSVNSDKPLT
NPRPPSVGGPPEDSGASAAKGQKSPGALETPSAAGSQGNTASQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSSRVNVSILTQEELDSGLDELSVRSQDTTVLETLSNDFSMDNISDSGASNETTNALQENSLA
DFSLPQTPQTDNPSEGRGEGVSKSFSDHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPEATVEEAEEAAFGSEKPQSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGPPQPLPAVQPSGPI
NMEETRPEGSYFSKYSEAAELRSTASLLATQESDVMVGPFKLRSRKQRTLMIIEEIRAAQEREELKRQRQVLQ
STQSPRTKNAPSLPSRTCYKTAPGKIEKVKPPPSPTTEGPSLQPDLAPEEAAGTQRPKNLMQTLMEDYETHKSKR
RERMDDSSYTSKLLSCKVTSEVLEATRNVNRRKSALALRWEAGIYANQEEEDNE

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FIGURE 589

TTGCTGCATAGATTACAACGGTGATGGCGGGCAAGCGGTCCGGCTGGAGCCGGGCGGCTCTCCTCCAGCTCCTTC
TCGGCGTGAACCTGGTGGTGATGCCGCCACCCGGGCCCCGGAGTCTGCGCTTCGTTACCTTGCTGTACCGCCATG
GAGACCGTTCCACAGTGAAGACATATCCCAAGGACCCCTATCAGGAAGAAGAATGGCCCCAGGGGTTTGGTCAGT
TAACCAAGGAGGGGATGCTACAGCACTGGGAAGTGGGCCAGGCCCTGCGGCAGCGCTATCACGGCTTCCTAAACA
CCTCTTATCACCGGCAAGAGGTTTATGTGCGAAGCACAGACTTTGACCGGACTCTCATGAGTGCTGAGGCCAACCC
TGGCTGGACTCTTCCCTCCCAACGGGATGCAGCGCTTCAACCCGAACATCTCGTGGCAGCCTATTCCTGTGCACA
CTGTGCCCATCACTGAGGACAGGCTGCTGAAGTTCCCGTTGGGCCCATGTCCCCGTTATGAGCAGCTGCAGAACG
AGACCCGGCAGACACCAGAGTATCAGAATGAGAGTTCTCGGAATGCACAATTTCTGGACATGGTGGCCAACGAGA
CAGGGCTTACAGACCTGACACTGGAGACCGTCTGGAATGTCTATGACACACTCTTCTGTGAGCAAACGCACGGGC
TGCGCCCTGCCGCCCTGGGCCTCACCCCAAACCATGCAGCGTCTCAGCCGGCTAAAGGACTTCAGCTTCCGCTTCC
TCTTCGGAATCTACCAGCAGGCGGAGAAGGCCCGGCTTCAGGGGGGAGTCTGCTGGCTCAGATAAGGAAGAACC
TGACCTAATGGCGACCACCTCCCAGCTCCCCAAGCTGCTGGTTTACTCTGCGCACGACACTACCTGGTTGCC
TGCAAATGGCACTGGATGTCTACAATGGTGAACAAGCCCCCTACGCCTCCTGCCACATATTTGAACTGTACCAGG
AAGATTCTGGGAATTTCTCAGTGGAGATGTACTTTCGGAACGAGAGTGACAAGGCCCCCTGGCCGCTCAGCCTGC
CTGGCTGCCCTCACCGCTGCCCACTGCAGGACTTCCTTCGCCTCACAGAGCCCGTCTGTGCCCAAGGATTGGCAGC
AGGAGTGCCAGCTGGCAAGCGGTCTGTCAGACACAGAGGTGATTGTGGCCTTGGCTGTATGTGGCTCCATCCTCT
TCCTCCTCATAGTGCTGCTCCTCACCGTCTCTTCCGGATGCAGGCCAGCCTCCTGGCTACCGCCACGTGCGAG
ATGGGGAGGACCACGCCTGACAACCACTCAGCCCCCTTCCCTCCACCTCCTAGGGGAGGTGGGCTGGGGCCCTCGC
TCCTGACTGTTGCTGCTCCCCAGCCCATGGACAGGAGATCCTGGGTTGGGCCTCCCTCTGATGACCCAGCCAGA
TGAGCGAGTGGGGCTCAGCGTGGCCCATGGTGCCTGTCACTCAGCATTCCCATGCCTGATGTTTACCAAGTGCTG
TGTTGGACACTGGCTTTCTCCAAACAGGATTTGCCTCCTCCACGCTCCCTACACACCTGAGATGTAAACTGGCAG
TCAGTGTTCACTCAGGACCTAGGATTAGAAAATGGCAGAGTTGGTGCTGGATCCACCTTGCACTTCTATCAAGCC
CTGTTCTTTTTCTCCAGCCTGAAGTCTTCGGCAAATAGCTCAGAGGGACACGGTCTTGCCCTCTCAGTGCTTATT
TTAGTGGGAAAAACAGCTAATACCAGGGGTÀCAAACATTGGCTCCCAAGGAACTGGATCACCCAACAGCCAGCCA
GCCACATTTCCCTGTGTCTGGCTAGAGCCACCATTAGACTCAGACAGAATGCTTCAGGAATCGTTGTCACCCCTT
CAACTGGAGCAGGACGGAAGGTTGTCTGTACTTGGGAGGGAGTGGGGAGTGGTGGGAAGGGAGTTGCTTGTCACA
CGAATCAGGAAACTGCTCTCCCTCAGCTGGGCTGGGGTCTCCAGGGACCTGAGCTACATGCAGGTTGTGAGCTGG
AAAAGAAAGTTCTAGACTGTGGCCCAGAATAGGGCTGGGGCAGCTCCCAGAGAATGAATAGTGCTGTTTCCTATT
GGACTGATA

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FIGURE 590

MAGKRSGWSRAALLQLLLGVNLVVMPPTRARSLRFVTLLYRHGDRSPVKTYPKDPYQEEEWFPQGFQGLTKEGMLQ
HWELGQALRQRYHGFLNTSYHRQEVYVRSTDFDRTLMSAEANLAGLFPPNGMQRFNPNISWQPIPVHTVPITEDR
LLKFPLGFCPRYEQQLQNETRQTPEYQNESSRNAQFLDMVANETGLTDLTLETVWNVYDTLFCQETHGLRLPPWAS
PQTMQRLSRLKDFSFRFLFGIYQQA EKARLQGGVLLAQIRKNLTLMATTSQLPKLLVYSAHDTTLVALQMALDVY
NGEQAPYASCHIFELYQEDSGNFSVEMYFRNESDKAPWPLSLPGCPHRCPLQDFLRLTEPVVPKDWQQECQLASG
PADTEVIVALAVCGSILFLLIVLLLTVLFRMQAQPFGYRHVADGEDHA

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FIGURE 591A

CATTTCATAAGACTCAGAGCTACGGCCACGGCAGGGACACGCGGAACCAAGACTTGGAAGCTTGATTGTTGTGGTT
CTTCTTGGGGGTTATGAAATTTTCATTAATCTTTTTTTTTTCCGGGGAGAAAGTTTTTGGAAGATTCTTCCAGAT
ATTTCTTCATTTTCTTTTGGAGGACCGACTTACTTTTTTTTGGTCTTCTTTATTACTCCCCCTCCCCCGTGGGACC
CGCCGGACGCGTGAGGAGACCGTAGCTGAAGCTGATTCTGTACAGCGGGACAGCGCTTCTGCCCCCTGGGGGAG
CAACCCCTCCCTCGCCCCCTGGGTCTACGGAGCCTGCACTTTCAAGAGGTACAGCGGCATCCTGTGGGGGCTGG
GCACCGCAGGAAGACTGCACAGAACTTTGCCATTGTTGGAACGGGACGTTGCTCCTTCCCCGAGCTTCCCCGA
CAGCGTACTTTGAGGACTCGCTCAGCTCACCGGGGACTCCCACGGCTCACCCCGGACTTGACCTTACTTCCCCA
ACCCGGCCATAGCCTTGGCTTCCCGGCGACCTCAGCGTGGTCACAGGGGCCCCCTGTGCCAGGGAAATGTTTC
AGGCTTTCCCCGGAGACTACGACTCCGGCTCCCGGTGCAGCTCCTCACCTCTGCCGAGTCTCAATATCTGTCTT
CGGTGGACTCCTTCGGCAGTCCACCCACCGCCGCGGCTCCAGGAGTGCGCCGTCTCGGGGAAATGCCCGGTT
CCTTCGTGCCACGGTCACCGCATCACAACCAGCCAGGACCTCCAGTGGCTTGTGCAACCCACCTCATCTCTT
CCATGGCCAGTCCCAGGGGAGCCACTGGCCTCCAGCCCCCGTCTGCGACCCCTACGACATGCCGGGAACCA
GCTACTCCACACCAGGCATGAGTGGCTACAGCAGTGGCGGAGCGAGTGGCAGTGGTGGGCCTTCCACCAGCGGAA
CTACCAGTGGGCCTGGGCCTGCCCGCCAGCCCCGAGCCCGGCTAGGAGACCCCGAGAGGAGACGCTCACCCAG
AGGAAGAGGAGAAGCGAAGGGTGCGCCGGGAACGAAATAAACTAGCAGCAGCTAAATGCAGGAACCGGCGGAGGG
AGCTGACCGACCGACTCCAGGCGGAGACAGATCAGTTGGAGGAAGAAAAAGCAGAGCTGGAGTCCGAGATCGCCG
AGCTCCAAAAGGAGAAGGAACGTCTGGAGTTTGTGCTGGTGGCCACAAACCGGGCTGCAAGATCCCCCTACGAAG
AGGGGCCCCGGGCGGGGCCCGCTGGCGGAGGTGAGAGATTGCGGGCTCAGCACCGGCTAAGGAAGATGGCTTCA
GCTGGCTGCTGCCGCCCCGCCACCACCGCCCCCTGCCCTTCCAGACCAGCCAAGACGCACCCCCCAACCTGACGG
CTTCTCTCTTTACACACAGTGAAGTTCAAGTCTCGCGGACCCCTTCCCCGTTGTTAACCTTTCGTACACTTCTT
CGTTTGCTCCTCACCTGCCCGGAGGTCTCCGCGTTCCCGGCGCCCAACGCACCAGCGGCAGTGACCAGCCTTCCG
ATCCCCCTGAACCTCGCCCTCCCTCCTCGCTCGGTGAAGTCTTTAGACACACAAAACAAACAAACACATGGGGGAGA
GAGACTTGGAAGAGGAGGAGGAGGAGGAGAAGGAGGAGAGAGAGGGGAAGAGACAAAGTGGGTGTGTGGCCTCCC
TGGCTCCTCCGTCTGACCCTCTGCGGCCACTGCGCCACTGCCATCGGACAGGAGGATTCTTGTGTTTTGTCTG
CCTCTTGTCTGTGCCCCGGCGAGGCCGAGAGCTGGTGACTTTGGGGACAGGGGGTGGGAAGGGGATGGACAC
CCCCAGCTGACTGTTGGCTCTCTGACGTCAACCCAAGCTCTGGGGATGGGTGGGGAGGGGGGCGGGTGACGCCCA
CCTTCGGGCAGTCCCTGTGTGAGGATGAAGGGACGGGGGTGGGAGGTAGGCTGTGGGGTGGGCTGGAGTCTCTCC
AGAGAGGCTCAACAAGGAAAAATGCCACTCCCTACCCAATGTCTCCACACCCACCCTTTTTTTGGGGTGCCAG
GTTGGTTTCCCCTGCACTCCCAGCCTTAGCTTATTGATCCACATTTCCATGGTGTGAGATCCTCTTTACTCTGG
GCAGAAGTGAGCCCCCCTTAAAGGGAATTGCATGCCCCCTAGAATAATCTCATCCCCCACCCGACTTCTTTT
GAAATGTGAACGTCTTCTTGAAGTGTCTAGCCACTCCCTCCCAGAAAACTGGCTCTGATTGGAATTTCTGGCC
TCCTAAGGCTCCCCACCCCGAAATCAGCCCCCAGCCTTGTTCTGATGACAGTGTATCCCAAGACCCTGCCCCC
TGCCAGCCGACCTCCTGGCCTTCTCGTTGGGCCGCTCTGATTTAGGCAGCAGGGGCTGCTGTGATGCCGTCC
TGCTGGAGTGATTTATACTGTGAAATGAGTTGGCCAGATTGTGGGGTGCAGCTGGGTGGGGCAGCACACCTCTGG
GGGGATAATGTCCCCACTCCCGAAAGCCTTTCTCGGTCTCCCTTCCGTCCATCCCCCTTCTTCTCCCCCTCAAC
AGTGAGTTAGACTCAAGGGGGTGACAGAACCAGAAAGGGGGTGACAGTCTCCATCCACGTGGCCTCTCTCTCTC
TCCTCAGGACCCCTCAGCCCTGGCCTTTTTCTTTAAGGTCCCCCGACCAATCCCCAGCCTAGGACGCCAACTTCTC
CCACCCCTTGGCCCCCTCACATCTCTCCAGGAAGGCAGTGAGGGGCTGTGACATTTTTTCCGGAGAAGATTTTCA
GCTGAGGCTTTGGTACCCCCAAACCCCCAATATTTTGGACTGGCAGACTCAAGGGGCTGGAATCTCATGATTCC
ATGCCCCGAGTCCGCCCATCCCTGACCATGGTTTTGGCTCTCCACCCCGCCGTTCCCTGCGCTTTCATCTCATGAG
GATTTCTTTATGAGGCAAAATTTATATTTTTTAATATCGGGGGGTGGACCACGCCGCCCTCCATCCGTGCTGCATG
AAAAACATTCCACGTGCCCTTGTGCGCGCTCTCCCATCCTGATCCAGACCCATTCTTAGCTATTTATCCCTT
TCCTGGTTTCCGAAAGGCAATTATATCTATTATGTATAAGTAAATATATTATATATGAGTGTGTGTGTGTGCGTG
CGCGTGAGTGTGTGAGCGCTTCTGCAGCCTCGGCCTAGGTCACGTTGGCCCTCAAAGCGAGCCGTTGAATTGGAA
ACTGCTTCTAGAACTCTGGCTCAGCCTGTCTCGGGCTGACCCTTTTCTGATCGTCTCGGCCCTCTGATTGTTT
CCGATGGTCTCTCTCCCTCTGTCTTTTTCTCTCCGCTGTGTCCATCTGACCGTTTTTCACTTGTCTCCTTTCTGA
CTGTCCCTGCCAATGCTCCAGCTGTCTGCTGACTCTGGGTTCGTTGGGGACATGAGATTTTATTTTTTGTGAGTG
AGACTGAGGGATCGTAGATTTTTTACAATCTGTATCTTTGACAATTCTGGGTGCGAGTGTGAGAGTGTGAGCAGGG

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FIGURE 591B

CTTGCTCCTGCCAACCACAATTCAATGAATCCCCGACCCCCCTACCCCATGCTGTACTTGTGGTTCTCTTTTGT
ATTTTGCATCTGACCCCGGGGGGCTGGGACAGATTGGCAATGGGCCGTCCCCTCTCCCCTTGGTTCTGCACTGTT
GCCAATAAAAAGCTCTTAAAAACGC

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FIGURE 592

MFQAFPGDYDSGSRCSSSPSAESQYLSSVDSFGSPPTAAASQECAGLGEMPGSFVPTVTAITTSQDLQWLVPPTL
ISSMAQSQGQPLASQPPVVDPYDMPGTSYSTPGMSGYSSGGASGSGGPSTSGTTSGPGPARPARARPRRPREETL
TPEEEEKRRVRRERNKLAAAKCRNRRRELTDRLQAETDQLEEEKAELESEIAELQKEKERLEFVLVAHKPGCKIP
YEEGPGPGPLAEVRDLPGSAPAKEDGFSWLLPPPPPPPLPFQTSQDAPPNLTASLFTHSEVQVLGDFFPVNPSY
TSSFVLTCPVSAFAGAQR TSGSDQPSDFLNSP SLLAR

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FIGURE 593A

CGTGCGGCGGTGGGCTGGTCTTCCGCGGCCGGCGTTGCGCCGCGGCGGAGGGTGGGCGCGCGGGGAGCGGGATGG
AGCTGGGGCGACCCCTTGCTGGAGGTACTGGCCTCAGCCCTTTCTCCCGCTTCCCCACCCCTCTTACCCCCAGATT
ACATTCTCTGTGTGGTGTCTTTACTGCAGATGAAGGATTTGGGGGCAGAGCACTTGGCAGGTCATGAAGGGGTCC
AACTTCTCGGGTTGTTGAACGTCTACCTGGAACAAGAAGAGAGATTCCAACCTCGAGAAAAAGGGCTGAGTTTGA
TTGAGGCTACCCCGGAGAATGATAACACTTTGTGTCCAGGATTGAGAAATGCCAAAGTTGAAGATTTAAGGAGTT
TAGCCAACTTTTTTGGATCTTGCACTGAAACTTTTGTCTGGCTGTCAATATTTTGGACAGGTTCTTGGCTCTTA
TGAAGGTGAAACCTAAACATTTGTCTTGCACTGGAGTCTGTTCTTTTTTGGCTGGCTGCTAGAATAGTTGAAGAAG
ACTGCAATATTCCATCCACTCATGATGTGATCCGATTAGTCAGTGTAATGTACTGCTTCTGACATAAAACGGA
TGGAAAAATAATTTTCAAAAAATTGCACATGAATTGGAAGCTACTACTGCCTTAAACTTTTTGCACTTATACC
ATACTATTATACTTTGTCTACTTTCAGAAAGGAAAGAAATACTGAGCCTTGATAAACTAGAAGCTCAGCTGAAAG
CTTGCAACTGCCGACTCATCTTTTCAAAAGCAAAACCATCTGTATTAGCCTTGTGCCTTCTCAATTTGGAAGTGG
AACTTTTGAATCTGTTGAATTACTGGAATTTCTTGTCTAGTTAAAAAACATTCCAAGATTAATGACACTGAGT
TCTTCTACTGGAGAGAGTTGGTTTCTAAATGCCTAGCCGAGTATTCTTCTCTGAATGTTGCAAAACCAGATCTTA
AGAAGTTGGTTTGGATCGTTTCAAGGCGCACAGCCAGAACCTCCACAACAGCTACTATAGTGTTCCTGAGCTGC
CAACGATACCTGAGGGGGGTTGTTTTGATGAAAGTGAAAGTGAGGACTCTTGTGAAGATATGAGTTGTGGAGAGG
AGAGTCTCAGCAGCTCTCCTCCAGTGATCAAGAGTGCACCTTCTTTTTCAACTTCAAAGTGGCACAACACTGT
GCTTTCATCTT**TAG**AAATCTGATTGTTCTGTGCAGAATTTATATTTACAGGTTTCAAAGCAATAAATGGGGGAATA
GGTAGTTTCTGGTTTAGCCCCATCTAGTCAGGAATTAATATACTGGAATACCTACCTTCTATTTGTTATTTCAG
ATCAGATCTGGCCTATTTTTCATATTTATCCTAAGCCATCAAATGGGGTAGTGCTCTTAAACCATTAAACAGTACT
TTAGACATTGGCAGCTTTATTTTTCTCGTAGATCTTTAGCTACTTTGGGGAGGAGGGAAGGTGCTGATACCTTCAA
TTTGTTACTTTTTCAAGATTTTTTAAAAATAACTAGTGTAGCTTATCTTAAACATTTTTATAAAACCTTCAGATGTCT
TTAAGCAGATTGGAAGTATGCAAGTGCTTCCCTAGCAGGGACAGTGGAATAATCCTTAATGGTTTATCATAGATTT
CACCCCTCCCCCTTCTCAGAAGAGTGAGTATGCTCTTAAATGTCAAACACATTTTTGTTGTTTTGTTTTTAAAT
GATCAGTGTCTATTTGATGTGATGCAGATCTTATAAATTTGGGAATTATAATATTGACATTTCTGTGATTTTTAT
ATATGTAATGTCTTAATTGAGATTTCTGTTAAGGCAGAAATAATTAGGCTAGGGCTCTTAGTTTTCAATCCTATT
GCCAAGTATTGTCAAACATATGGTATTATTTAATGTTACTTTAAAAATCCATAATCTGCTAGTTTTGCATGTAC
TTATATGAAAACAGTGCAGTAAGTTGAAAACCTCAGTATCTATGGAATTGATAAATGTTGATCTGGTGTAGTATAT
TTTATCGCATTTTTCTTATATTAATAAATGTCTGCATGATTACATTTTATTTCTTTGTAATTTACATTTTCAAGAT
AGTGTATTGCTATATGGGTGCCAAGATTGAATATGAAGAACCCGAGTGTGTTGTAGTATTATAGTTTTAAGCAAAT
CTGTGTGGTGATACAGCCATAAGAATGGGGCTTATATAAACTCTGTACATGTAAGATTTTGTACAGAGAATTTTT
AACTTTATAAATTTGTATATGAACATGTAAATCTTTTAAATGTACATAAAATACTGTATTTTTTTACCTTGTGTG
TGATAGTCTAGTCATTGCATGTAAATATAATTTATTATGTATTCTGTAGTATAAATCATACATTGATGACTTACA
TTTTTACTGGTAAGTCAACATCCGTTGGATGTTTTCTGAAGTGGCTCTTTTTGAAGTGATAATAGATTGTAATTC
AAAATAAAATTATTAATGAATTTCTCCTTGTTTGGGATCACATCTTAATTTTTAATCTGTAAAAGTTCTTGATGT
ATTTAATGAGAAGACTTTAGGTGAGGCTACAGTGATTCCAGAGTGAGCCTTCTAACTGGCTAGCAGAAAGTTCTC
TAGGTTTGGCATCTGTGCCTTGGAGATACTGAAAGAGAATCTGTCATTTGACAATTGACCTCTTTGTGGGATGGA
CTCATTAAAGTATGCTCTCAGAGACTGGTATATTACCAGAATGCCTATTAATTTTTCAGTGAGAGGCAACAGGTATT
AAGTAGAACAGAATGCTCAGGTGGCAGATTAGAACGATCTTTCAGGAGACAAAGCAAGTTTTAATCAGTTGTTT
GGTTAATAAGTATGGGGTGTTCGCTGTGATAGGGCCCCGCCAGCTTCTGGCTCTTGTGGACCTCAAAAAGTATCAG
GTGGTTTTTGCAAGTGGTGGTCTTTTCCCTGCCCCACCCCAATAGGTTCCCATCTGTCTAGTTTGATTTTTGTA
GACCTTTGTTTTCTCTAGTTAGAAAATCAGGTACACTGAATATGGTTTTTCAATGTAACACCTCTTCTCTGGAGATA
GGGGTATGTTTTCTTACCCTTCTAGTGGAGAATCCTACTTGAGGATGACCTTTCTCTCTTACTAAATAATATTA
GTAAATAGTGGGCAATATATTCTGCTTTCAGATTTTGATTTGTTGAGATGTAAAAGTTGTTTGGGGCTTACCAA
TCTCAAGACTCTCTTTAGCTCCTGCAGGATTGTATTGCTTTTCTTACTGGATATTTTTCTGGGTAAAGCATCTTT
GTGGCTTCATCTCTTCCCTGTGGTTTTTCAAGTATTTAGTGCAGACCTCTCTGCTGAGCTTGCAACCTGTTTA
TTCACATGGCCTGCCATGCCACTTGGAGGTTTCTGATTACTCCCAAACCTGCTGGTTCTTTATGTCTTTCTCAGC
GAATAATTCCATCTGTTTCAAGTGTGAAACTTAGGTGATATGCTCATCTCTTTTGCCTGTTTATGGAGGTACCA
GCCTCTATCATTTGTATGATTTGTTTTACTGTATTTATATCTCTCTGTCCCCCTTTTTCTGCCATTGGCATGGT

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FIGURE 593B

TTAGACCTGTACTCTTTATCAGCAGAGGTACTGTAATATATTTGTGATCCCTCAGCTTCCAGGCTTACTCCTGGT
CTCTGCCCTTCCTATCTACATATCCTTTTAAAAATAAAATTTTAACTATCTCCTGAAAAATTGTTGAGTAGGTCACG
CACAATCAGGAGAAAAATCTATTCATGACATACAAGTCTCTGTCTAATCTGAACACTGCACCTGTCTCTGGCCTT
TTTTTCTTGTCAATTTCTTAGACCTTAAAAAATGTGTATTGAGAAAGAACTCTGTTAGCTATACAGAAGATGAACT
GGGCAATATAGAGTAGCAGCATGGAGACCAGTCTGACTGAACTAAGGCAGTGGAAGTGTGGATGAGGAAGAGAGG
TGAAAATTGAGAAGCGCTATCCTTTCTCTTTGGGCATTATTAGGAGGCTCACAGACAAGTCCAGGAGTCTGGTTA
TACCTCCTGTGCCATTCAACCAGGTGGCTTTCCCATGACTGTGATGAATAAAATTGAGAAGCCCCTGCCCTTTT
CAGAGCAGAGGGTGAGGAGAAAGCTACCATTTTGTCTCATCCTTACCCCCGTTGACTTGGCGAGAGATTTGACC
TTTCAGGTTTTGATCCTGTCAATTTCTAGGATGTGGTGCACGCACCTTTGCTGTTGCGCATGGTGAAGTATTGTGC
CTAGGTCCTGGGTCTTCATCTGTTTGGCTCTGCTACTGTTTCCCTCCTCCCAGGAAGTGTGGTTAGACAAATAATG
TGTTTTAATTACCTGTCACACTCAGGATTAATACATACTCAGGTTAACTGTAGAGAGGCATTGGCTTCAGAACAC
TCCTCGTGACAATTTTAACCATTTTCTTTGTCTAGAGTCTGCCTTTTTCTTTTTTACAATTTCTTTTATTTCAAC
ACTAGGTTTCAATATGGTGTTCCTGCTACCTCCACCTCCCTCCTCCTCATCACACATGCAAATTGTCAGCTTA
TTGAGACAACCCACTTAGATTTCATATATGGACAAGGACAAGGTATTTTGCATTTGTTACTGGAATTCAGTTTTCC
TAACTATTTACTACCAGAAATGGTCAATAACTTACTTTGTGGTTAGCAAATCAAATTGTGTGATAGATAGTTTTCC
CAGTATGATGGCCAGTCAGTCTTTCCATCCCTGTGCCTACATGCTGCTCTTCCCGTCCACAAGTGGAGTCTGTTT
CTCTTGAGTTTTGGCTGGCCTTATGAATGGCTTTGCTTACTGAAGTGCAGCAGAAGAAATTTAGTATATGTCCAA
GCCTAGGCTTTAAGAGACTGGCAGCTTTCTTTTATCCTTTTTTGGGAAGCTAGCCACCATGCTGCAAAGAAGCTCA
GCTGGATTACTGAAAGATGAGAGGCCATGTGGAGAGAGACTCTTGAGGATGAGAGATTATCTTGATGTTCCAGC
CTTAAGCTCCCAGCTGAATGTGGGTGTATCCTCAGCTACACCACAGAAAACAGAGGAACACTACTCAGTCGATCCCA
ATCAACCCACAGACTCACTAGAAATAACAAATTATTGTTTTAAGCCACGAGGTTTTTGGGGGAGGGTTGTTAAACA
GTAATAGATAAGTGAGACAGATTGCTTGTTATTTATGGTCAAATGGTGATTATCTCTGGTGAGATTACAGGTGAT
GTTTTTTTTTAAGTTATGCCTATCTGTAGTTTCCTTTTTTTCCTAAAATTGATTTGAATTATTAGTGATTAAACAG
AATAAAGAATGAACTTTAAACACACACGCTGGTTATATGCTTCCTCTAATTAAATTCATGGCTCTCACCAC

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FIGURE 594

CGGGLVFRGRRCAAAEGGRAGSGMELGRPLLEVLASALSPASPPLLPPDYILCVVSLLQMKDLGAEHLAGHEGVQ
LLGLLNVYLEQEERFQPREKGLSLIEATPENDNTILCPGLRNAKVEDLRSLANFFGSCCTETFLAVNILDRLALM
KVKPKHLSCIGVCSFLLAARIVEEDCNIPSTHDVIRISQCKCTASDIKMEKIISEKLHYELEATTALNFLHLYH
TIILCHTSEKKEILSLDKLEAQLKACNCRLIFSKAKPSVLALCLLNLEVETLKSVELLEIILLVKKHHSKINDTEF
FYWRELVSKCLAEYSSPECCKPDLKKLVWIVSRRTAQNLHNSYYSVPELPTIPEGGCFDESESEDSCEDMSCGEE
SLSSSPPSDQECTFFFNFKVAQTLCFPS

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FIGURE 595

CCGGTCGGATGCCGGACCGGGGGCACCGCTGAGGCGGTGGGTCCCCGACCTGCGAGACAGGTTTGGGAAGCCCCCG
CTGCGCCCAGTCCGTGCGGACCGCGAGGCCGCGGGCGGGTGGAGGCGCGTCTCCGGCACGATGAAAGGATTTGGGG
GCAGAGCACTTGGCAGGTCATGAAGGGGTCCAACCTTCTCGGGTTGTTGAACGTCTACCTGGAACAAGAAGAGAGA
TTCCAACCTCGAGAAAAAGGGCTGAGTTTGATTGAGGCTACCCCGGAGAATGATAACACTTTGTGTCCAGGATTG
AGAAATGCCAAAGTTGAAGATTTAAGGAGTTTAGCCAACTTTTTTGGATCTTGCACTGAAACTTTTGTCTTGCTG
GTCAATATTTTGGACAGGTTCTTGGCTCTTATGAAGGTGAAACCTAAACATTTGTCTTGCACTTGAGTCTGTTCT
TTTTTGCTGGCTGCTAGAAATAGTTGAAGAAGACTGCAATATTCATCCACTCATGATGTGATCCGGATTAGTCAG
TGTAATGTACTGCTTCTGACATAAAACGGATGGAAAAAATAATTTAGAAAAATTGCACTATGAATTGGAAGCT
ACTACTGCCTTAAACTTTTTGCACCTATACCATACTATTATACTTTGTCATACTTCAGAAAGGAAAGAAATACTG
AGCCTTGATAAACTAGAAGCTCAGCTGAAAGCTTGCAACTGCCGACTCATTTTTCAAAGCAAAACCATCTGTA
TTAGCCTTGTCCTTCTCAATTTGGAAGTGGAACCTTTGAAATCTGTTGAATTACTGGAAATTCTCTTGCTAGTT
AAAAACATTCCAAGATTAATGACACTGAGTTCTTCTACTGGAGAGAGTTGGTTTCTAAATGCCTAGCCGAGTAT
TCTTCTCCTGAATGTTGCAAACAGATCTTAAGAAGTTGGTTTGGATCGTTTCAAGGCGCACAGCCAGAACCTC
CACAACAGCTACTATAGTGTTCCTGAGCTGCCAACGATACCTGAGGGGGGTTGTTTTGATGAAAGTGAAAGTGAG
GACTCTTGGAAGATATGAGTTGTGGAGAGGAGAGTCTCAGCAGCTCTCCTCCCAGTGATCAAGAGTGCACCTTC
TTTTTCAACTTCAAAGTGGCACAACACTGTGCTTTCCATCTTAGAAATCTGATTGTTCTGTCAGAATTTATATT
TACAGGGTTTCAAAGCAATAAATGGGGGAATAGGTAGTTTCCTGGTTTAGCCCCCATCTAGTCAGGAATTAATAT
ACTGGAATACCTACCTTCTATTTGTTATTCAGATCAGATCTGGCCTATTTTCATATTTATCCTAAGCCATCAAAT
GGGGTAGTGCCTCTTAAACCATTAAACAGTACTTTAGACATTGGCACTTTATTTTTCTCGTAGATCTTTAGCTACT
TTGGGGAGGAGGGAAGGTGCTGATACCTTCAATTTGTTACTTTTCAAGATTTTTAAAAATAACTAGTGTAGCTTA
TCTTAAACATTTTATAAAACCTTCAGATGTCTTTAAGCAGATTGGAAGTATGCAAGTGCTTCCTTAGCAGGGACA
GTGGATAATCCTTAATGGTTTATCATAGATTTACCCCTCCCCCTTCTCAGAAGAGTGAGTATGCTCTTAAATGT
CAAACACATTTTTGTTGTTTTGTTTTTAAATGATCAGTGTCTATTTGATGTGATGCAGATCTTATAAATTTGGG
AATTATAATATTGACATTTCTGTGATTTTTATATATGTAATGTCTTAATTGAGATTTGTGTTAAGGCAGAAATAA
TTAGGCTAGGGCTCTTAGTTTTCACTTCTATTGCCCAAGTATTGTCAAACCTATGGTATTATTTTAAATGTTACTT
TAAAAATCCATAATCTGCTAGTTTTGCATGTACTTATATGAAAACAGTGCAGTAAGTTGAAAACCTCAGTATCTAT
GGAATTGATAAATGTTGATCTGGTGTAGTATATTTTATCCGCATTTTCTTATATTAAAAAATGTTCTGCATGATT
ACATTTTATTTGCCTTTGT

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FIGURE 596

MKDLGAEHLAGHEGVQLLGLLNVYLEQEERFQPREKGLSLIEATPENDNTLCPGLRNAKVEDLRSLANFFGSCTE
TFVLAVNILDRLALMKVKPKHLSCIGVCSFLLAARIVEEDCNIPSTHDVIRISQCKCTASDIKRMEKIISEKLH
YELEATTALNFLHLYHTIILCHTSEKELSLDKLEAQLKACNCRLIFSKAKPSVLALCLLNLEVETLKSVELLE
ILLLVKKHISKINDTEFFYWRELVSKCLAEYSSPECKPDLKKLVWIVSRRTAQNLHNSYYSVPELPTIPEGGCFD
ESESEDSCEDMSCGEESLSSSPSDQECTFFFNFKVAQTLCFPS

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FIGURE 597A

CGGGATTGTTGCTCCGTTGTACCTGCTGGGGAATTCACCTCGTTACTGCTTGATATCTTCCACCCCTTACAAAAT
CAGAAAAGTTGTGTTTTCTAATACCAAAGAGGAGGTTTGGCTTTCTGTGGGTGATTCCCAGACACTGAAGTGCAA
AGAAGAGACCTCCTAGAAAAGTAAAATATGACTAAAAGCAATGGAGAAGAGCCCAAGATGGGGGCGAGGATGGA
GAGATTCCAGCAGGGAGTCCGTAAACGCACACTTTTGGCCAAGAAGAAAGTGCAGAACATTACAAAGGAGGATGT
TAAAAGTTACCTGTTTCGGAATGCTTTTGTGCTGCTCACAGTCACCGCTGTCATTGTGGGTACAATCCTTGATT
TACCCTCCGACCATAACAGAATGAGCTACCGGGAAGTCAAGTACTTCTCCTTTCTGGGGAACCTTCTGATGAGGAT
GTTACAGATGCTGGTCTTACCCTTATCATCTCCAGTCTTGTACAGGAATGGCGGCGCTAGATAGTAAGGCATC
AGGGAAGATGGGAATGCGAGCTGTAGTCTATTATATGACTACCACCATCATTGCTGTGGTGATTGGCATAATCAT
TGTCATCATCATCCATCCTGGGAAGGGCACAAAGGAAAACATGCACAGAGAAGGCAAAATTGTACGAGTGACAGC
TGCAGATGCCTTCTGGACTTGATCAGGAACATGTTCCCTCCAAATCTGGTAGAAGCCTGCTTTAAACAGTTTAA
AACCAACTATGAGAAGAGAAGCTTTAAAGTGCCCATCCAGGCCAACGAAACGCTTGTGGGTGCTGTGATAAACAA
TGTGTCTGAGGCCATGGAGACTCTTACCCGAATCACAGAGGAGCTGGTCCAGTTCCAGGATCTGTGAATGGAGT
CAATGCCCTGGGTCTAGTTGTCTTCTCCATGTGCTTCGGTTTTGTGATTGGAACATGAAGGAACAGGGGCGAGG
CCTGAGAGAGTTCTTTGATTCTCTTAACGAAGCCATCATGAGACTGGTAGCAGTAATAATGTGGTATGCCCCCGT
GGGTATTCTCTTCTGATTGCTGGGAAGATTGTGGAGATGGAAGACATGGGTGTGATTGGGGGCGAGCTTGCCAT
GTACACCGTGACTGTCATTGTTGGCTTACTCATTACGCAGTCATCGTCTTGCCACTCCTCTACTTCTTGTTAAC
ACGGA AAAACCCCTTGGGTTTTTATTGGAGGGTTGCTGCAAGCACTCATCACCGCTCTGGGGACCTCTTCAAGTTC
TGCCACCCCTACCCATCACCTTCAAGTGCTGGAAGAGAACAATGGCGTGGACAAGCGCGCTACCAGATTCTGTGCT
CCCCGTAGGAGCCACCATTAAACATGGATGGGACTGCCCTCTATGAGGCTTTGGCTGCCATTTTCATTGCTCAAGT
TAACAACCTTTGAACTGAACTTCGGACAAATTATTACAATCAGCATCACAGCCACAGCTGCCAGTATTGGGGCAGC
TGGAATTCCTCAGGCGGGCCTGGTCACTATGGTCATTGTGCTGACATCTGTGCGCCTGCCACTGACGACATCAC
GCTCATCATCGCGGTGGACTGGTTCTGGATCGCCTCCGACCACCACCAACGTACTGGGAGACTCCCTGGGAGC
TGGGATTGTGGAGCACTTGTACGACATGAAGTGAAGAACAGAGATGTTGAAATGGGTAAGTCACTGATTGAAGA
GAATGAAATGAAGAAACCATATCAACTGATTGCACAGGACAATGAACTGAGAAACCCATCGACAGTGAAACCA
GATGTAGACTAACATAAAGAAACACTTTCTTGAGCACCAGGTGTTAAAAACCATTATAAAATCTTTCCATCTCAT
TACAGCTCATTGCTCCAGCAAGCCCGTCATCTTCCCTTTCTCCCTTCTGATAAGACTGGAAAATAGTCCTCCA
AAACACAAGGGAGGATTTTGGGTGGCCAAAGTGTAATTTTCATCCACAAATTGAAATTTTTAAATCATTTCAT
GTTAGTCTTACCGAATAAGGTACCAAGATCACAAATAGTGTGATCAGATCTTACAAGTTTATGTGGCACACAAT
TCCTATAAATGTGATTTTTTTATATAAGTTAAAGAGACAAATAGTAGGCTAAAAACATTTTAAATCAACTTTTG
AAATTTAAAAATCTTTCAGAATACAATTCAGTTTTAGTTTCAAATGTTAACAACCTTGAATTACAACCGGTTATC
AGTTGGACAGTAAGATTTTATCCCTTTCTCTCTGACTGGTATACCTATTTTATTAGTAGCTAGGTGCACATATA
CATCTAGCACAGCTGTGAGGACAGACAGAAGGCAAGTTTCCATGTGGCCTTGAGCAAGTCCCATCTCACCTCTA
GGCCTCAGTGTCCTCATCTATAAAATGAGGGACTTCCCTAGAACTCTTCATGGTCTCTTCCAGCCCAGACATCCT
GTGATGTCATGAAAGCACCTGCCCTCTGTTTTCCCTCAGAACCCCTGTACCATCCATGGAGCACGAGGCCTTCA
GAAAAGACACTTCAATGGGAGTGAACATTTCTAACTAAGGACAGGATGGCTGTGTGTGGTGGTACCAGGTCTTG
TGAGCAAAAGTGAGGTTATGCAAGTCGCCAGGACAGGAGGCCATTCCAGGAGTGGGATTATTCATCAAACTCTTTG
CCCAGTTTATCCCAATGGGGGAAGTATTCCCTTCTTTCTACTCTGGGAAGAATGTCTCTGCCACTCCTCAACT
GATGATAGACTTCGAAAACAGATGAGAAGACTAGCAGCTAGCAAGGGTGCTTGTAGTCACACTGTGGAACACTAA
AGAGCTAGGAAAAGAGTTGAGCACAGGCAACATTACAAACAAAGGATTTGAAAACACCAAGAGTACAGGTCTTCTT
TAAGGAAGAATAAAAAAGAAGAGGTTTCAATTTTTCTGGCTTTTTTTTTTACCTGAAACACTTTTTCTCGAGTCCAA
AATCATTCCCCCGTGAAGTCTGCTTACCAAAACATAAGACGACTTATATATTTGAAAGAAGTCAAATGAATGAG
CTCTCTAATAGAAGTCCATGAGTTGAGTGGGTATTTCTTATTTGAAAGTGTTTTTCTTTAATCAAAAGTCCCTAG
AATGAGGGAAACAAAATATTTATTTGTTTTGGAATCCCACTTATCAAATCATTCAAACCTTTCAGCTGGAGTGGG
GTTTGCTTTTGTGTTTTGTGTTCCATAAGAGAAATGGTAGAAGATGAATCAGTATGAAGACACTGTCAATGAGG
TTATGAGAAAAAACAGCAGGGGCATTAGTTTCAAGGCAAGGCAGCTCCAGGTTTAGAGATTAATTTTTTACCCCC
TAAGGAATATCCAGTCAAAGACGCTGAGTGGGAGCTGTCAGGCAGTAGCAGCTGTGTTTGTGTTTCTGGCTGAAA
ATGGTGAAGAATGGACTTAATTATGCTAACAACCTGAAAAATCTAGACATAGATCCTCTGATATACAATTAGAGA
TATTTTTATATAGACCCCAAGCATTCTGTGCATAAAAGTTAACATTAGGCTGTGGTGCAGTAACCATTTAATGTC

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FIGURE 597B

GAGGCTCTATTTTCGGAAATACACTACAAATGTTAAAGTACGTGGCTGTCCTCTTAAGACACTAGTAGAGCAAAGA
CTTAATCATATCAACTTAATTCTGTTACACAATATGTGTTTTTTAATATACTAACCATTTCTTATGGAAAGGTCC
TGTGGGGAGCCCATCCTCTCGCCAAGCCATCACAGGCTCTGCATACACATGCACTCAGTGTGGACTGGGAAGCAT
TACTTTGTAGATGTATTTTCAATAAAGAAAAAATAGTTTTACATT

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FIGURE 598

MTKSNGE E P K M G G R M E R F Q Q G V R K R T L L A K K K V Q N I T K E D V K S Y L F R N A F V L L T V T A V I V G T I L G F T L R P Y R M S Y
R E V K Y F S F P G E L L M R M L Q M L V L P L I I S S L V T G M A A L D S K A S G K M G M R A V V Y Y M T T T I I A V V I G I I I V I I I H P G K G
T K E N M H R E G K I V R V T A A D A F L D L I R N M F P P N L V E A C F K Q F K T N Y E K R S F K V P I Q A N E T L V G A V I N N V S E A M E T L T
R I T E E L V P V P G S V N G V N A L G L V V F S M C F G F V I G N M K E Q Q Q A L R E F F D S L N E A I M R L V A V I M W Y A P V G I L F L I A G K
I V E M E D M G V I G G Q L A M Y T V T V I V G L L I H A V I V L P L L Y F L V T R K N P W V F I G G L L Q A L I T A L G T S S S S A T L P I T F K C
L E E N N G V D K R V T R F V L P V G A T I N M D G T A L Y E A L A A I F I A Q V N N F E L N F G Q I I T I S I T A T A A S I G A A G I P Q A G L V T
M V I V L T S V G L P T D D I T L I I A V D W F L D R L R T T T N V L G D S L G A G I V E H L S R H E L K N R D V E M G N S V I E E N E M K K P Y Q L
I A Q D N E T E K P I D S E T K M

FIGURE 599A

[illegible]

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FIGURE 599B

GAACCAGAAGGCCTATTACCCCAGCATCGTGGCCAAACAGGTGGCTGGCCGTGCGGCTGGAGTGTGTGGGCAACTG
CATCGTTCTGTTTGTCTGCCCTGTTTTCGGTGATCTCCAGGCACAGCCTCAGTGCTGGCTTGGTGGGCCTCTCAGT
GTCTTACTCATTTGCAGGTCACCACGTACTTGAAGTGGCTGGTTTCGGATGTCATCTGAAATGGAAACCAACATCGT
GGCCGTGGAGAGGCTCAAGGAGTATTAGAGACTGAGAAGGAGGCGCCCTGGCAAATCCAGGAGACAGCTCCGCC
CAGCAGCTGGCCCCAGGTGGGCCGAGTGGAAATTCGGAACTACTGCCTGCGCTACCGAGAGGACCTGGACTTCGT
TCTCAGGCACATCAATGTCACGATCAATGGGGGAGAAAAGTTCGGCATCGTGGGGCGGACGGGAGCTGGGAAGTC
GTCCCTGACCCTGGGCTTATTTTCGGATCAACGAGTCTGCCGAAGGAGAGATCATCATCGATGGCATCAACATCGC
CAAGATCGGCCTGCACGACCTCCGCTTCAAGATCACCATCATCCCCAGGACCCTGTTTTGTTTTCGGGTTCCCT
CCGAATGAACCTGGACCCATTAGCCAGTACTCGGATGAAGAAGTCTGGACGTCCCTGGAGCTGGCCCCACCTGAA
GGACTTCGTGTCTAGCCCTTCCCTGACAAGCTAGACCATGAATGTGCAGAAGGCGGGGAGAACCTCAGTGTCTGGGCA
GCGCCAGCTTGTGTGCCTAGCCCGGGCCCTGCTGAGGAAGACGAAGATCCTTGTGTTGGATGAGGCCACGGCAGC
CGTGACCTGGAAACGGACGACCTCATCCAGTCCACCATCCGGACACAGTTCGAGGACTGCACCGTCTCTACCAT
CGCCCCACGGCTCAACACCATCATGGACTACACAAGGGTGATCGTCTTGGACAAAGGAGAAATCCAGGAGTACGG
CGCCCCATCGGACCTCCTGCAGCAGAGAGGTCTTTTCTACAGCATGGCCAAAGACGCCGGCTTGGTGTGAGCCCC
AGAGCTGGCATATCTGGTCAGAACTGCAGGGCCTATATGCCAGCGCCCAGGGAGGAGTCAGTACCCCTGGTAAAC
CAAGCCTCCCACACTGAAACCAAAACATAAAAAACCAAAACCCAGACAACCAAAACATATTCAAAGCAGCAGCCACC
GCCATCCGGTCCCCCTGCCTGGAAGTGGCTGTGAAGACCCAGGAGAGACAGAGATGCGAACCACCCAAAAACACGCA
CACCTGCCCCCTGGTGCCCTGAGACAGACACACAGCCTCACGCCCCAGGAATGCAAGTGGTTTTCTGGTGCTTC
CCACGGAGGAGTTTTGGCAGCCAGACTTCTGGAGGAATTGGTTGTATAGAAGATCCTAGTGACCAAAATTCAGCCT
ACTGCCTCGGATCTCTCCAGCCGAAGTCTGTGGACTGCAAGTCTTTGAGATGCTTCTGGCTCCCATCACCTCTAA
CATCCTTGTCTGGGTCTACCAGGAACGCTTCATTTCCCTTGGGGCTGCAGTTTTGTGGTTGAGGGCCTGGAGAAA
ATCATTTTCTCCCCCTGGCAGTGTCCCAGGGCCCTGGATGGTCTCTTACCAACATCTGGTCTTCCAGGCACTCA
AAAGCTGGGAACCAGCATCTCAGCGCCAGCTCTACCAGTTCTCGTTTTGGGCCAGAGGCAGCCTCTGCACTCCCA
CGCCTGTCTCTCTGGAAGGGACCTGGTTGGACTAACGGCTAACCTGGACCTGGAAGTGTAGGGCCAGGGGATTGT
CTCAGGGCCGACGTTCCACCTGGGGCTTCCCTCCCCACCCACCCGACTCCAGGCTTTCCCTTTTTCTTTTGT
CAACATTGTAAGAACAATCAATGCTGTTATTACTGATCCCACCATGATTGATGTGGGGTAAATATTAAGGAGATG
GCCTCATGGGAATTTGACCTTGACTAGAAATAGAGACTGAGAGTGAGCAACCAGCTGGAAGGTACTATGCCAGTC
CTAGCAGAAAAATGTGTTAGGGGCCTGGCCCAAAGCAGTGTTGGTTGCTTACAGTGTTGATTGATTTTGTCTTT
TTTCTTACCACCTCTTTTCTTTCCCTCTCATGGTACCTGCTCATGGTTATGAAGCTTTCAAAGTAAAGAACACGA
AATAC

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FIGURE 600

MALRGFCSADGSDPLWDWNVTWNTSNPDEFKCFQNTVLVWVPCFYLWACFPFYFLYLSRHDRGYIQMTPLNKTKT
ALGFLLWIVCWADLFYFWERSRGIFLAPVFLVSPDLLGITLLATFLIQLERRKGVQSSGIMLTFWLVALVCAL
AILRSKIMTALKEDAQVDLFRDITFYVYFSLLLIQLVLSCFSDRSPLFSETIHDNPNCPESSASFLSRITFWWIT
GLIVRGYRQPLEGSDLSLNKEDTSEQVVPVLVKNWKKECAKTRKQPVKVYSSKDPAPQPKESSKVDANEEVEAL
IVKSPQKEWNPSLKFVLYKTFGPYFLMSFFFFKAHDLMMFSGPQILKLLIKFVNDTKAPDWQGYFYTVLLFVTAC
LQTLVLHQYFHCIFVSGMRIKTAVIGAVYRKALVITNSARKSSTVGEIVNLMSVDAQRFMDLATYINMIWSAPLQ
VILALYLLWLNLGPSVLAVAVMVLMPVNAVMAKTKTYQVAHMKSKDNRIKLMNEILNGIKVLKLYAWELAFK
DKVLAIHQEELKVLKKSAYLSAVGTFTWVCTPFLASVSLKRLRIFLSHEELEPDSIERRPVKGGGTNSITVRNA
TFTWARSDPPTLNGITFSIPEGALVAVVGQVCGKSSLLSALLAEMDKVEGHVAIKGSVAYVPQQAWIQNDSLRE
NILFGCQLEEPYRSVIQACALLPDLEILPSGDRTEIGEKGVLNLSSGGQKQRVSLARAVYSNADIYLFDDPLSAVD
AHVGKHIFENVIGPKGMLKNKTRILVTHSMSYLPQVDVIVMSGGKISEMGSYQELLARDGAFAEFLRTYASTEQ
EQDAEENGVTGVSGPGKEAKQOMENGMLVTD SAGKQLQRQLSSSSSYSGDISRHHNSTAELQKAEAKKEETWKLME
ADKAQTGQVKLSVYWDYMKAI GLFISFLSIFLFMCNHVSALASNYWLSLWTD DPIPNGTQEHTKVRLSVYGALGI
SQGIAVFGYSMAVSIGGILASRCLHVDLLHSILRSPMSFFERTPSGNLVNRF SKELDTVDSMIPEVIKMFMGSLF
NVIGACIVILLATPIAIIIPPLGLIYFFVQRFYVASSRQLKRLESVSRSPVYSHFNETLLGVSVIRAFEEQERF
IHQSDLKVDENQKAYYPSIVANRWLAVRLECVGNCIVLFAALFAVISRHSL SAGLVGLSVSYSLQVTTYLNLVLR
MSSEMETNIVAVERLKEYSETEKEAPWQIQETAPPSSWPQVGRVEFRNYCLRYREDLDFVLRHINVTINGGEKVG
IVGRTGAGKSSLTLGLFRINESAEGEI IIDGINIAKIGLHDLRFKITIIPQDPVLFSGSLRMNLDFFSQYSDEEV
WTSLELAHLKDFVSALPDKLDHECAEGGENLSVGQRQLVCLARALLRKT KILVLDEATAAVDLETDDLIQSTIRT
QFEDCTVLTIAHRLNTIMDYTRVIVLDKGEIQEYGAPSDLLQQRGLFY SMAKDAGLV

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FIGURE 601

CGGGGACCCGGCTGCGGTGGCTGCGGGACTGACGAGAACTACTAAAGTTCCTGGGGAAGCAAAGTAGAATTTCA
TAAGAACAAAATGGATGGAGAGGAGAGAAAACCTATGGTGGCTGTGAAGGACCTGATGCCATGTATGTCAAATTGAT
ATCATCTGATGGCCATGAATTTATTGTAAAAAGAGAACATGCATTAACATCAGGCACGATAAAAGCCATGTTGAG
TGGCCCAGGTCAGTTTGCTGAGAACGAAACCAATGAGGTCAATTTTAGAGAGATACCTTCACATGTGCTATCGAA
AGTATGCATGTATTTTACGTACAAGGTTTCGCTACACTAACAGCTCCACCGAGATTCCTGAATTCCTCAATTGCACC
TGAAATTGCACTGGAACTGCTGATGGCTGCGAACTTCTTAGATTGTTAAAATAAAATAAATTATAATAAACTGTTA
ACTCTTTTCAGTATTTAATACCTGTAGTTCAGTTAGTAACTTTTTTCATATATAGCATGTTGCCTGTATGCAGTTG
AACTATATAAAGTTCATTGCAAAGCAGATTATCTTGTTTTTTTGCATAGCAATCAAAGTTGAAATTTGTTTGCTA
CATCAACAAATTAAGGACATTTTCACAACTGAGAAATAAACAAATATGCCAATTAAAAAAAAAAAAA

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FIGURE 602

MDGEEKTYGGCEGPDAMYVKLISSDGHEFIVKREHALTSGTIKAMLSGPGQFAENETNEVNFREIPSHVLSKVCM
YFTYKVRYTNSSTEIPEFPIAPEIALELLMAANFLDC

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FIGURE 603

CAGACCCCAGTTCGCCGACTAAGCAGAAGAAAGATCAAAAACCGGAAAAGAGGAGAAGAGCAAACAGGCACTTTG
AGGAACAATCCCCTTTAACTCCAAGCCGACAGCGGTCTAGGAATTCAAGTTCAGTGCCTACCGAAGACAAAGGCG
CCCCGAGGGAGTGGCGGTGCGACCCAGGGCGTGGGCCCGGCCGCGGAGCCACACTGCCC GGCTGACCCGGTGG
TCTCGGACCATGTCTCCCGCCCCAAGACCCCCCGTTGTCTCCTGCTCCCCCTGCTCAGCTCGGCACCGCGCTC
GCCTCCCTCGGCTCGGCCCAAAGCAGCAGCTTCAGCCCCGAAGCCTGGCTACAGCAATATGGCTACCTGCCTCCC
GGGACCTACGTACCCACACACAGCGCTCACCCAGTCACTCTCAGCGGCCATCGCTGCCATGCAGAAGTTTTAC
GGCTTGCAAGTAACAGGCAAAGCTGATGCAGACACCATGAAGGCCATGAGGCGCCCCCGATGTGGTGTTCAGAC
AAGTTTGGGGCTGAGATCAAGGCCAATGTTTGAAGGAAGCGCTACGCCATCCAGGGTCTCAAATGGCAACATAAT
GAAATCACTTTCTGCATCCAGAATTACACCCCCAAGGTGGGCGAGTATGCCACATACGAGGCCATTGCAAGGCG
TTCCGCGTGTGGGAGAGTGCCACACCACTGCGCTTCCGCGAGGTGCCCTATGCCTACATCCGTGAGGGCCATGAG
AAGCAGGCCGACATCATGATCTTCTTTGCCGAGGGCTTCCATGGCGACAGCACGCCCTTCGATGGTGAGGGCGGC
TTCTGGCCCATGCCTACTTCCCAGGCCCAACATTGGAGGAGACACCACTTTGACTCTGCCGAGCCTTGACT
GTCAGGAATGAGGATCTGAATGGAAATGACATCTTCTGGTGGCTGTGCACGAGCTGGGCCATGCCCTGGGGCTC
GAGCATTCCAGTGACCCCTCGGCCATCATGGCACCCCTTTTACCAGTGGATGGACACGGAGAATTTTGTGCTGCC
GATGATGACCGCCGGGGCATCCAGCAACTTTATGGGGGTGAGTCAGGGTTCCCCACCAAGATGCCCCCTCAACCC
AGGACTACCTCCCGGCCCTTCTGTTCTGATAAAACCAAAAACCCACCTATGGGCCCAACATCTGTGACGGGAAC
TTTGACACCGTGGCCATGCTCCGAGGGGAGATGTTTGTCTTCAAGGAGCGCTGGTTCTGGCGGGTGAGGAATAAC
CAAGTGATGGATGGATACCCAATGCCCATTTGGCCAGTTCTGGCGGGGCTGCCTGCGTCCATCAACACTGCCTAC
GAGAGGAAGGATGGCAAATTCGTCTTCTTCAAAGGAGACAAGCATTGGGTGTTTGATGAGGCGTCCCTGGAACCT
GGCTACCCCAAGCACATTAAGGAGCTGGGCCGAGGGCTGCCTACCGACAAGATTGATGCTGCTCTCTTCTGATG
CCCAATGGAAAGACCTACTTCTTCCGTGGAACAAGTACTACCGTTTCAACGAAGAGCTCAGGGCAGTGGATAGC
GAGTACCCCAAGAACATCAAAGTCTGGGAAGGGATCCCTGAGTCTCCAGAGGGTCATTTCATGGGCAGCGATGAA
GTCTTCACTTACTTCTACAAGGGGAACAAATACTGGAATTCACAACCAAGAGCTGAAGGTAGAACCGGGCTAC
CCCAAGTCAGCCCTGAGGGACTGGATGGGCTGCCCATCGGGAGGCCGCGCGGATGAGGGGACTGAGGAGGAGACG
GAGGTGATCATCATTGAGGTGGACGAGGAGGGCGCGGGCGGTGAGCGCGGCTGCCGTGGTGCTGCCCGTGCTG
CTGCTGCTCCTGGTGCTGGCGGTGGGCCTTGCACTCTTCTTTCAGACGCCATGGGACCCCCAGGCGACTGCTC
TACTGCCAGCGTTCCCTGCTGGACAAGGTCTGAACGCCACCGCCGCCCCGCCCCACTCCTACCACAAGGACTTTGC
CTCTGAAGGCCAGTGGCAGCAGGTGGTGGTGGTGGGCTGCTCCCATCGTCCCGAGCCCCCTCCCCGCAGCCTCC
TTGCTTCTCTGTGCCCTGGCTGGCCTCCTTACCCCTGACCGCCTCCCTCCCTCCTGCCCCGGCATTGCATCTT
CCCTAGATAGGTCCCTGAGGGCTGAGTGGGAGGGCGGCCCTTTCCAGCCTCTGCCCCTCAGGGGAACCTGTAG
CTTTGTGTCTGTCCAGCCCCATCTGAATGTGTTGGGGGCTCTGCACTTGAAGGCAGGACCCTCAGACCTCGCTGG
TAAAGGTCAAATGGGGTCATCTGCTCCTTTTCCATCCCTGACATACCTTAACCTCTGAACTCTGACCTCAGGAG
GCTCTGGGCACTCCAGCCCTGAAAGCCCCAGGTGTACCCAATTGGCAGCCTCTCACTACTCTTTCTGGCTAAAG
GAATCTAATCTTGTGAGGGTAGAGACCCTGAGACAGTGTGAGGGGGTGGGACTGCCAAGCCACCCTAAGACCT
TGGGAGGAAAACCTCAGAGAGGGTCTTCGTTGCTCAGTCAGTCAAGTTCCTCGGAGATCTGCCTCTGCCTCACCTA
CCCCAGGGAACTTCCAAGGAAGGAGCCTGAGCCACTGGGGACTAAGTGGGCAGAAGAAACCTTGGCAGCCCTGT
GCCTCTCGAATGTTAGCCTTGATGGGGCTTTCACAGTTAGAAGAGCTGAAACCAGGGGTGCAGCTGTGAGGTAG
GGTGGGGCCGGTGGGAGAGGCCCGGGTCAGAGCCCTGGGGGTGAGCCTGAAGGCCACAGAGAAAGAACCTTGCCC
AAACTCAGGCAGCTGGGGCTGAGGCCCAAAGGCAGAACAGCCAGAGGGGGCAGGAGGGGACCAAAAAGGAAAATG
AGGACGTGCAGCAGCATTGGAAGGCTGGGGCCGGGCAGGCCAGGCCAAGCCAAGCAGGGGGCCACAGGGTGGGCT
GTGGAGCTCTCAGGAAGGGCCCTGAGGAAGGCACACTTGCTCCTGTTGGTCCCTGTCTTGTGCTGCCAGGCAGCG
TGGAGGGGAAGGGTAGGGCAGCCAGAGAAAGGAGCAGAGAAGGCACACAAACGAGGAATGAGGGGCTTCACGAGA
GGCCACAGGGCCTGGCTGGCCACGCTGTCCGGCCTGCTCACCATCTCAGTGAGGGGCAGGAGCTGGGGCTCGCT
TAGGCTGGGTCCACGCTTCCCTGGTGCCAGCACCCCTCAAGCCTGTCTCACCAGTGGCCTGCCCTCTCGCTCCCC
CACCCAGCCCCACCATTTGAAGTCTCCTTGGGCCACCAAGGTGGTGGCCATGGTACCGGGGACTTGGGAGAGTGA
GACCCAGTGGAGGGAGCAAGAGGAGAGGGATGTGCGGGGGGTGGGGCACGGGGTAGGGGAAATGGGGTGAACGGT
GCTGGCAGTTCGGCTAGATTTCTGTCTTGTGTTTTTTGTTTTGTTTGAATGTATATTTTTATTATAATTATTA
TATATGAATTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 604

MSPAPRPPRCLLLPLLTLTGTALASLGSAQSSSFSP EAWLQQYGYLPPGDLRTHQTQRSPQSLSAAI AAMQKFYGLQ
VTGKADADTMKAMRRPRCGVPDKFGAEIKANVRRKRYAIQGLKWQHNEITFCIQNYTPKVGEYATYEAIRKA FRV
WESATPLRFREVPYAYIREGHEKQADIMIFFAEGFHGDSTPFDGEGGFLAHAYFPGPNIGGDTHFDSAEPWTVRN
EDLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFYQWMDTENFVLPDDDRRGIQQLYGGESGFPTKMFPQPR TT
SRPSVPDKPKNPTYGPNICDGNFDTVAMLRGEMFVFKERWFWRVRNNQVMDGYPMPIGQFWRGLPASINTAYERK
DGKFVFFKGDKHWWVFDEASLEPGYPKHIKELGRGLPTDKIDAALFWMPNGKTYFFRGNKYRFRNEELRAVDSEYP
KNIKVWEGIPESPRGSFMGSDEVFTYFYKGNKYWKFNQKLKVEPGYPKSALRDWMGCPSSGRPDEGTEETEVI
IIEVDEEGGGAVSAAAVVLPVLLLLLVLA VGLAVFFFRRHGTPRRLLYCQRSLLDKV

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FIGURE 605

GAATTCCGGGCTCCGGGGATGAGGTTCGCGGCCGGCGGGTCCC GCGCTGTTGCTGCTGCTGCTCTTCCTCGGAGCG
GCCGAGTCGGTGCCTCGGGCCAGCCTCCGCGCCGCTACACCCAGACTGGCCGAGCCTGGATTCTCGGCCGCTG
CCGGCCTGGTTCGACGAAGCCAAGTTTCGGGGTGTTTCATCCACTGGGGCGTGTTCCTCGGTGCCCGCCTGGGGCAGC
GAGTGGTTCGTTGGTGGCACTGGCAGGGCGAGGGGCGGCCGAGTACCAGCGCTTCATGCGCGACAACTACCCGCC
GGCTTCAGCTACGCCGACTTCGGACCGCAGTTCCTGCGCGCTTCTTCACCCGGAGGAGTGGGCCGACCTCTTC
CAGGCCGCGGGCGCCAAGTATGTAGTTTTGACGACAAAGCATCACGAAGGCTTCACAACTGGCCGAGTCTGTG
TCTTGAACTGGAATCCAAAGACGTGGGGCCTCATCGGGATTTGGTTGGTGAATTGGGAACAGCTCTCCGGAAG
AGGAACATCCGCTATGGACTATACCACTCACTCTTAGAGTGGTTCATCCACTCTATCTACTTGATAAGAAAAAT
GGCTTCAAAACACAGCATTTTGTGAGTGCAAAAACAATGCCAGAGCTGTACGACCTTGTTAACAGCTATAAACCT
GATCTGATCTGGTCTGATGGGGAGTGGGAATGTCTTGATACTTACTGGAATCCACAAATTTTCTTTTCATGGCTC
TACAATGACAGCCCTGTCAAGGATGAGGTGGTAGTAAATGACCGATGGGGTCAGAACTCTTCCTGTCAACCATGGA
GGATACTATAACTGTGAAGATAAATTCAAGCCACAGAGCTTGCCAGATCACAAGTGGGAGATGTGCACCAGCATT
GACAAGTTTTCTGGGGCTATCGTCGTGACATGGCATTGTCTGATGTTACAGAAGAATCTGAAATCATTTTCGGAA
CTGGTTCAGACAGTAAGTTTGGGAGGCAACTATCTTCTGAACATTGGACCAACTAAAGATGGACTGATTGTTCCC
ATCTTCCAAGAAAGGCTTCTTGCTGTTGGGAAATGGCTGAGCATCAATGGGGAGGCTATCTATGCCTCCAAACCA
TGGCGGGTGCAATGGGAAAAGAACACAACATCTGTATGGTATACCTCAAAGGGATCGGCTGTTTATGCCATTTTT
CTGCACTGGCCAGAAAATGGAGTCTTAAACCTTGAATCCCCATAACTACCTCAACTACAAAGATAACAATGCTG
GGAATTCAGGAGATCTGAAGTGGTCCACAGATCCAGATAAAGGTCTCTTCATCTCTTACCCAGTTGCCACCC
TCTGCTGTCCCCGAGAGTTTGCTTGGACTATAAAGCTGACAGGAGTGAAGTAATCATTTGAGTGCAAGAAGAAA
GAGGCGCTGCTCACTGTTTTCTGCTTCAGTTTTTCTCTTATAGTACCATCACTATAATCAACGAACCTCTCTTC
TCCACCCAGAGATGGCTTTTCCAACACATTTTAATTAAAGGAAGTGAAGTACATTACCTGATGTCTAAATGGACC
AAAGATCTGAGATCCATTGTGATTATATCTGTATCAGGTCAGCAGAAGAAGGAAGTGAAGTGAAGTGAAGTGAAGT
TCATCAATTCTAATATTTGGAATATCTACAATGGAATCTTCCCTCTGTTCTCTGATAACCTACTTGCTTACTC
AATGCCTTTAAAGCCAAGTCACCTGTTGCCTATGGGAGGAGGTGGAAGGATTTGGCAAGCTCAACCACATGCTAT
TTAGTTAGCATCAGTTGTCACCAACAGTCTTCTGCAAAGGGCAGGAGAGCTTTGGGGGAAAGGAAAAGGCTTAC
CAGGCTGCTATGGTCAACTCTTCAGAAATTTTCAGAGCAATCTAAAAGCGCCAAAATTCGCTATGTTTACAGTGA
TACTATTAAGAAAATGAATGTGATTCTGCTCTGTCTTTTTAAGTATGATCAAATAAA

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FIGURE 606

MRSRPAGPALLLLLLLFLGAAESVRRSQPPRRYTPDWPSLDSRPLPAWFDEAKFGVFIHWGVFSVPAWGSEWFWWH
WQGEGRPQYQRFMRDNYPPGFSYADFGPQFTARFFHPEEWADLFQAAGAKYVVLTTKHHEGFTNWPSPVSWNWNNS
KDVGPHRDLVGELGTALRKRNIRYGLYHSLLEWFHPLYLLDKKNGFKTQHFVSAKTMPELYDLVNSYKPDLIWSD
GEWECPTYWNSTNFLSWLYNDSPVKDEVVVNDRWGQNSSCHHGGYINCEDKFKPQSLPDHKWEMCTSIDKFSWG
YRRDMALSDVTEESEIISELVQTVSLGGNYLLNIGPTKDGLIVPIFQERLLAVGKWLSINGEAIYASKPWRVQWE
KNTTSVWYTSKGSAVYAIFLHWPENGVLNLESPITTTSTTKITMLGIQGDWKWSTDPDKGLFISLPQLPPSAVPAE
FAWTIKLTGVK

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FIGURE 607

CCCGCCTTCCATACCTCCCCGGCTCCGCTCGGTTCCCTGGCCACCCCGCAGCCCCTGCCAGGTGCC**ATG**GCCGCA
TTGTACCGCCCTGGCCTGCGGCTTAAGTGGCATGGGCTGAGCCCCTTGGGCTGGCCATCATGCCGTAGCATCCAG
ACCCTGCGAGTGCTTAGTGGAGATCTGGGCCAGCTTCCCACTGGCATTTCGAGATTTTGTAGAGCACAGTGCCCGC
CTGTGCCAACCAGAGGGCATCCACATCTGTGATGGAAGTGGGCTGAGAATACTGCCACACTGACCCTGCTGGAG
CAGCAGGGCCTCATCCGAAAGCTCCCCAAGTACAATAACTGCTGGCTGGCCCGCACAGACCCCAAGGATGTGGCA
CGAGTAGAGAGCAAGACGGTGATTGTAAGTCTTCTCAGCGGGACACGGTACCACTCCCGCCTGGTGGGGCCTGT
GGGCAGCTGGGCAACTGGATGTCCCCAGCTGATTTCCAGCGAGCTGTGGATGAGAGGTTTCCAGGCTGCATGCAG
GGCCGCACCATGTATGTGCTTCCATTAGCATGGGTCCTGTGGGCTCCCGCTGTCCCGCATCGGGGTGCAGCTC
ACTGACTCAGCCTATGTGGTGGCAAGCATGCGTATTATGACCCGACTGGGGACACCTGTGCTTCAGGCCCTGGGA
GATGGTGACTTTGTCAAGTGTCTGCACTCCGTGGGCCAGCCCCTGACAGGACAAGGGGAGCCAGTGAGCCAGTGG
CCGTGCAACCCAGAGAAAACCTGATTGGCCACGTGCCCCAGCAGCGGAGATCATCTCCTTCGGCAGCGGCTAT
GGTGGCAACTCCCTGCTGGGCAAGAAGTGCTTTGCCCTACGCATCGCCTCTCGGCTGGCCCGGGATGAGGGCTGG
CTGGCAGAGCACATGCTGATCCTGGGCATCACCAGCCCTGCAGGGAAGAAGGCGCTATGTGCAGCCGCCTTCCCT
AGTGCCCTGTGGCAAGACCAACCTGGCTATGATGCGGCCCTGCACTGCCAGGCTGGAAAGTGGAGTGTGTGGGGGAT
GATATTGCTTGGATGAGGTTTGTACAGTGAAGGTCGACTCCGGGCCATCAACCCTGAGAACGGCTTCTTTGGGGTT
GCCCCCTGGTACCTCTGCCACCACCAATCCCAACGCCATGGCTACAATCCAGAGTAACACTATTTTTTACCAATGTG
GCTGAGACCAGTGATGGTGGCGTGTACTGGGAGGGCATTGACCAGCCTCTTCCACCTGGTGTACTGTGACCTCC
TGGCTGGGCAAACCTTGAAACCTGGTGACAAGGAGCCCTGTGCACATCCCAACTCTCGATTTTGTGCCCGGGCT
CGCCAGTGCCCCATCATGGACCCAGCCTGGGAGGCCCCAGAGGGTGTCCCCATTGACGCCATCATCTTTGGTGGC
CGCAGACCCAAAGGGGTACCCCTGGTATACGAGGCCCTCAACTGGCGTCATGGGGTGTGTGTGGGCAGAGCCATG
CGCTCTGAGTCCACTGCTGCAGCAGAACACAAAGGGAAGATCATCATGCACGACCCATTGCCATGCGGCCCTTT
TTTGGCTACAACCTCGGGCACTACCTGGAACACTGGCTGAGCATGGAAGGGCGCAAGGGGGCCAGCTGCCCCGT
ATCTTCCATGTCAACTGGTTCCGGCGTGACGAGGCAGGGCACTTCTGTGGCCAGGCTTTGGGGAGAATGCTCGG
GTGCTAGACTGGATCTGCCGGCGGTTAGAGGGGGAGGACAGTGCCCGAGAGACACCCATTGGGCTGGTGCCAAAG
GAAGGAGCCTTGGATCTCAGCGGCCTCAGAGCTATAGACACCACTCAGCTGTTCTCCCTCCCCAAGGACTTCTGG
GAACAGGAGGTTCTGTGACATTCTGGAGCTACCTGACAGAGCAGGTCAACCAGGATCTGCCCAAAGAGGTGTTGGCT
GAGCTTGAGGCCCTGGAGAGACGTGTGCACAAAAT**TGAC**CCTGAGGCCTAGTCTAGCAAGAGGACATAGCACCT
CATCTGGGAATAGGGAAGGCACCTTGCAGAAAATATGAGCAATTGATATTAACATAACATCTTCAATGTGCCATAG
ACCTTCCACAAAGACTGTCCAATAATAAGAGATGCTTATCTATTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 608

MAALYRPGLRLNWHGLSPLGWPSCRSIQTLRVLSGDLGQLPTGIRDFVEHSARLCQPEGIHICDGTEAENTATLT
LLEQQGLIRKLPKYNNCWLARTDPKDVAVESKTVIVTPSQRD TVPLPPGGACGQLGNWMSPADFQRAVDERFPG
CMQGR TMYVLPFSMGPVGSPLSRIGVQLTDSAYVVASMRIMTRLGTPVLQALGDGDFVKCLHSVGQPLTGQGEPV
SQWPCNPEKTLIGHVPDQREIISFGSGYGGNSLLGKKCFALRIASRLARDEGWLAEHMLILGITSPAGKKALCAA
AFP SACGKTNLAMMRPALPGWKVECVGDDIAWMRFDSEGRRLRAINPENGFFGVAPGTSATTNPNAMATIQSNTIF
TNVAETSDGGVYWEGIDQPLPPGVTVTSWLGKPWKPGDKEPCAHPNSRFCAPARQCPIMDPAWEAPEGVPIDAI
FGGRPKGVPLVYEAFNWRHGVFVGRAMRSESTAAAEHKGKIIMHDPFAMRPFFGYNF GHYLEHWLSMEGRKGAQ
LPRIFHVNWFRDEAGHFLWPGFGENARVLDWICRRLEGEDSARETPIGLVPKEGALDLSGLRAIDTTQLFSLPK
DFWEQEV RDIRSYLTEQVNQDLPKEVLAELEALERRVHKM

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FIGURE 609

GGCGAGAGGCGGGCTGAGGCGGCCAGCGGCGGCAGGTGAGGCGGAACCAACCCTCCTGGCCATGGAGGGGCCG
TGGTGGACGAGGGCCCCACAGGCGTCAAGGCCCTGACGGCGGCTGGGGCTGGGCCGTGCTCTTCGGCTGTTTCG
TCATCACTGGCTTCTCCTACGCCTTCCCCAAGGCCGTAGTGTCTTCTTCAAGGAGCTCATACAGGAGTTTGGGA
TCGGCTACAGCGACACAGCCTGGATCTCCTCCATCCTGCTGGCCATGCTCTACGGGACAGGTCCGCTCTGCAGTG
TGTGCGTGAACCGCTTTGGCTGCCGGCCCCGTCATGCTTGTGGGGGTCTCTTTGCGTCGCTGGGCATGGTGGCTG
CGTCCTTTTGGCGGAGCATCATCCAGGTCTACCTCACCCTGGGGTCATCACGGGGTTGGGTTTGGCACTCAACT
TCCAGCCCTCGCTCATCATGCTGAACCGCTACTTCAGCAAGCGGCGCCCCATGGCCAACGGGCTGGCGGCAGCAG
GTAGCCCTGTCTTCTGTGTGCCCTGAGCCCGCTGGGGCAGCTGCTGCAGGACCCTACGGCTGGCGGGGCGGCT
TCCTCATCCTGGGCGGCCTGCTGCTCAACTGCTGCGTGTGTGCCGCACTCATGAGGCCCTGGTGGTCACGGCCC
AGCCGGGCTCGGGGCCGCGCGACCCCTCCCGGCGCCTGCTAGACCTGAGCGTCTTCCGGGACCGCGGCTTTGTGC
TTTACGCCGTGGCCGCTCGGTTCATGGTGTGGGGCTCTTCGTCCCGCCCGTGTTCGTGGTGAGCTACGCCAAGG
ACCTGGGCGTGCCGACACCAAGGCCGCTTCTGCTCACCATCCTGGGCTTCATTGACATCTTCGCGCGGCCGG
CCGCGGGCTTCGTGGCGGGCTTGGGAAGGTGCGGCCCTACTCCGTCTACCTCTTCAGCTTCTCCATGTTCTTCA
ACGGCCTCGCGGACCTGGCGGGCTCTACGGCGGGCGACTACGGCGGCCTCGTGGTCTTCTGCATCTTCTTTGGCA
TCTCCTACGGCATGGTGGGGGCCCTGCAGTTCGAGGTGCTCATGGCCATCGTGGGCACCCACAAGTTCTCCAGTG
CCATTGGCCTGGTGTGCTGATGGAGGCGGTGGCCGTGCTCGTCGGGCCCCCTTCGGGAGGCAAACTCCTGGATG
CGACCCACGTCTACATGTACGTGTTTCATCCTGGCGGGGGCCGAGGTGCTCACCTCCTCCCTGATTTTGCTGCTGG
GCAACTTCTTCTGCATTAGGAAGAAGCCCCAAAGAGCCACAGCCTGAGGTGGCGGCCGCGGAGGAGGAGAAGCTCC
ACAAGCCTCCTGCAGACTCGGGGGTGGACTTGCGGGAGGTGGAGCATTTCTGAAGGCTGAGCCTGAGAAAAACG
GGGAGGTGGTTCACACCCCGGAAACAAGTGTCTTCAGTGGCTGGGCGGGGCCGGCAGGCACAGGGAGGAGGTACAG
AAGCCGGCAACGCTTGCTATTTATTTTACAACTGGACTGGCTCAGGCAGGGCCACGGCTGGGCTCCAGCTGCCG
GCCCAGCGGATCGTCGCCCATCAGTGTTTTGAGGGGGAAGGTGGCGGGGTGGGAACCGTGTCAATCCAGAGTGG
ATCTGCGGTGAAGCCAAGCCGCAAGGTTACAAGGCATCCTCACCAGGGGCCCGCCTGCTGCTCCCAGGTGGCCT
GCGGCCACTGCTATGCTCAAGGACCTGGAAACCCATGCTTCGAGACAACGTGACTTTAATGGGAGGGTGGGTGGG
CCGCAGACAGGCTGGCAGGGCAGGTGCTGCGTGGGGCCCTCTCCAGCCCGTCCTACCCTGGGCTCACATGGGGCC
TGTGCCCCACCCCTCTTGAGTGTCTTGGGGACAGCTCTTCCACCCCTGGAAGATGGAATAAACCTGCGTGTGGG
TGGAGTGTTCTCGTGCCGAATTCAAAAAGCTT

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FIGURE 610

MGGAVVDEGPTGVKAPDGGWGWAVLFGCFVITGFSYAFPKAVSVFFKELIQEFGIGYSdTAWISSILLAMLYGTG
PLCSVCVNRFGCRPVMLVGGLFASLGMVAASFCSI IQVYLTTGVITGLGLALNFQPSLIMLNRYFSKRRPMANG
LAAAGSPVFLCALSPLGQLLQDRYGWRGGFLILGGLLLNCCVCAALMRPLVVTAQPGSGPPRPSRRLDLSVFRD
RGFVLYAVAASVMVLGLFVPPVFVVSYAKDLGVDPDKAAFLLTILGFIDIFARPAAGFVAGLGKVRPYSVYLFSF
SMFFNGLADLAGSTAGDYGGLVVFCIFFGISYGMVGALQFEVLMAIVGTHKFSSAIGLVLLMEAVAVLVGPPSGG
KLLDATHVIMYVFILAGAEVLTSSLILLGNFFCIRKKPKKPQPEVAAAEKKLHKPPADSGVDLREVEHFLKAE
PEKNGEVVHTPETS

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FIGURE 611

AGTCCTGCTCTCCGCACGCCACCTTAGGCCCGCAGCCGTGCCGGGTGCTCTTCAGCATGTCCTTCATCCCCGGTGG
CCGAGGATTCCGACTTCCCCATCCACAACCTGCCCTACGGCGTCTTCTCGACCAGAGGCGACCCAAGACCGAGGA
TAGGTGTGGCCATTGGCGACCAGATCCTGGACCTCAGCATCATCAAGCACCTCTTTACTGGTCCTGTCTCTCCA
AACACCAGGATGTCTTCAATCAGCCTACACTCAACAGCTTCATGGGCCTGGGTGAGGCTGCCTGGAAGGAGGCGA
GAGTGTCTTGCAGAACTTGCTGTCTGTGAGCCAAGCCAGGCTCAGAGATGACACCGAACTTCGGAAGTGTGCAT
TCATCTCCCAGGCTTCTGCCACGATGCACCTTCCAGCCACCATAGGAGACTACACAGACTTCTATTCTCTCGGC
AGCATGCTACCAACGTCGGAATCATGTTCAAGGACAAGGAGAATGCGTTGATGCCAAATTGGCTGCACTTACCAG
TGGGCTACCATGGCCGTGCCTCCTCTGTCTGTTGGTGTCTGGCACCCCAATCCGAAGGCCCATGGGACAGATGAAAC
CTGATGACTCTAAGCCTCCCGTATATGGTGCCTGCAAGCTCTTGGACATGGAGCTGGAAATGGCTTTTTTTGTAG
GCCCTGGAAACAGATTGGGAGAGCCGATCCCCATTTCCAAGGCCCATGAGCACATTTTTTGAATGGTCCTTATGA
ACGACTGGAGTGCACGAGACATTCAGAAGTGGGAGTATGTCCCTCTCGGGCCATTCTTGGGAAGAGTTTTGGGA
CCACTGTCTCTCCGTGGGTGGTGCCCATGGATGCTCTCATGCCCTTTGCTGTGCCCAACCCGAAGCAGGACCCCA
GGCCCTGCCGTATCTGTGCCATGACGAGCCCTACACATTTGACATCAACCTCTCTGTAACTGAAAGGAGAAG
GAATGAGCCAGGCGGCTACCATATGCAAGTCCAATTTTAAAGTACATGTACTGGACGATGCTGCAGCAGCTCACTC
ACCACTCTGTCAACGGCTGCAACCTGCGGCCGGGGGACCTCCTGGCTTCTGGGACCATCAGCGGGCCGGAGCCAG
AAAACCTTCGGCTCCATGTTGGAAGTGTCTGTGGAAGGGAACGAAGCCCATAGACCTGGGGAATGGTCAGACCAGGA
AGTTTCTGCTGGACGGGGATGAAGTCATCATAACAGGGTACTGCCAGGGGGATGGTTACCGCATCGGCTTTGGCC
AGTGTGCTGGAAAAGTGCTGCCTGCTCTCCTGCCATCATTGAGATTTTCTCTGCTCTTCTGGAAACAAAGGGCTCA
AGCACCCCTTTCAACCCTGTGACTGGGGTCTCCCTCGGGCTGTAGGCCTGGTCCGCCATTCAAGTGACAAATAAA
GCCATTGTGCTCTGAGGCCTGC

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FIGURE 612

MSFIPVAEDSDFPIHNLPGVVFSTRGDPRPRIGVAIGDQILDLSIIKHLFTGPVLSKHQDVFNQPTLNSFMGLGQ
AAWKEARVFLQNLLSVSQARLRDDTELKCAFISQASATMHLPATIGDYTDFYSSRQHATNVGIMFRDKENALMP
NWLHLPVGYHGRASSVVVSGTPIRRPMGQMKPDDSKPPVYGACKLLDMELEMAFFVGPNGRLGEPISKAHEHI
FGMVLMDWSARDIQKWEYVPLGPFGLGKSFGTTVSPWVVPMDALMPFAVPNPKQDPRPLPYLCHDEPYTFDINLS
VNLKGEGMSQAATICKSNFKYMYWTMLQQLTHHSVNGCNLRPGDLLASGTISGPEPENFGSMLELSWKGTCPIDL
GNGQTRKFLLDGDEVIITGYCQGDGYRIGFGQCAGKVLFPALLPS

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FIGURE 613

CTGAGGCCCCACGCAGGGCCTAGGGTGGGAAGATGGCAGGTGGGGGCGGCGACCTGAGCACCAGGAGGCTGAATGA
ATGTATTTTACCAGTAGCAAATGAGATGAACCATCTTCTGCACACAGCCACGATTTGCAAAGGATGTTTACGGA
AGACCAGGGTGTAGATGACAGGCTGCTCTATGACATTGTATTCAAGCACTTCAAAGAAATAAGGTGGAGATTTT
AAATGCAATAAAAAAGACATTTCCATTCTCGAGGGCCTCCGTGATCGTGATCTCATCACAATAAAATGTTTGA
AGATTCTCAAGATTCTTGTAGAAACCTGGTCCCTGTACAGAGAGTGGTGTACAATGTTCTTAGTGAAGTGGAGAA
GACATTTAACCTGCCAGTTCTGGAAGCACTGTTTACGCGATGTCAACATGCAGGAATACCCCGATTTAATTCACAT
TTATAAAGGCTTTGAAAATGTAATCCATGACAAATTGCTCTCCAAGAAAGTGAAGAAGAAGAGAGGGAGGAGAG
GTCTGGCCTCCAACCTAAGTCTTGAACAAGGAAGTGGTGAAGTCTTTTTCGAAGCCTGACTTGGCCACCTTCGGG
TTCCCCATCTCATGCTGGTACAACCCACCTGAAAATGGACTCTCAGAGCACCCCTGTGAAACAGAACAGATAAA
TGCAAAGAGAAAAGATACAACCAAGTGAACAAGATGATTGCTAGGAAGCCAACAACAATGAACAATGTGCTCA
AAAGGCTGAGCCAACAGAGTCTTGCGAACAAATTGCTGTCCAAGTGAATAATGGGGATGCTGGAAGGGAGATGCC
CTGCCCCGTGCCCCGTGTGATGAAGAAAGCCAGAGGCAGAGCTACACAACCATGGAATCCAAATTAATTCCTGTTT
TGTGCGACTGGTGGATATAAAAAAGGAAAAGCCATTTTCTAATTCAAAAGTTGAGTGCCAAGCCCAAGCAAGAAC
TCATCATAACCAGGCATCTGACATAATAGTCATCAGCAGTGAGGACTCTGAAGGATCCACTGACGTTGATGAGCC
CTTAGAAGTCTTCATCTCAGCACCGAGAAGTGAGCCTGTGATCAATAATGACAACCCCTTTAGAATCAAATGATGA
AAAGGAGGGCCAAGAAGCCACTTGCTCACGACCCAGATTGTACCAGAGCCCATGGATTTTCAAGAAATTATCTAC
ATTCAGAGAAAAGTTTTAAGAAAAGAGTGATAGGACAAGACCACGACTTTTTCAGAATCCAGTGAGGAGGAGGCC
CGCAGAAGCCTCAAGCGGGGCACTGAGAAGCAAGCATGGTGAGAAGGCTCCTATGACTTCTAGAAGTACATCTAC
TTGGAGAATACCCAGCAGGAAGAGACGTTTTCAGCAGTAGTGACTTTTTCAGACCTGAGTAATGGAGAAGAGCTTCA
GGAAACCTGCAGCTCATCCCTAAGAAGAGGGTTCAGGATCACAGCCACAAGAACCTGAAAATAAGAAGTGCTCCTG
TGTCATGTGTTTTCCAAAAGGTGTGCCAAGAAGCCAAGAAGCAAGGACTGAAAGTAGTCAAGCATCTGACATGAT
GGATAACCATGGATGTTGAAAACAATTCTACTTTGGAAAAACACAGTGGGAAAAGAAGAAAAAGAGAAGGCATAG
ATCTAAAGTAAATGGTCTCCAAAGAGGGGAGAAAGAAAGACAGACCTAGAAAACATTTAACTCTGAATAACAAAGT
CCAAAAGAAAAAGATGGCAACAAAGAGGAAGAAAAGCCAACACTAGACCTTTGAAAAGAAGAAGAAAAAGAGGTCC
AAGAATTTCCCAAAGATGAAAATATTAATTTTTAAACAATCTGAACCTTCCTGTGACCTGTGGTGAGGTGAAGGGCAC
TCTATATAAGGAGCGATTCAAACAAGGAACCTCAAAGAAGTGTATACAGAGTGAGGATAAAAAGTGGTTCACTCC
CAGGGAATTTGAAATTGAAGGAGACCGCGGAGCATCCAAGAACTGGAAGCTAAGTATACGCTGCGGTGGATATAC
CCTGAAAGTCTGATGGAGAACAATTTCTGCCAGAACCACCAAGCACAAAGAAAAAGAGAATACTGGAATCTCA
CAACAATACCTTAGTTGACCCTTGTGAGGAGCATAAGAAGAAGAACCCAGATGCTTCAGTCAAGTTCTCAGAGTT
TTTAAAGAAGTGCTCAGAGACATGGAAGACCATTTTGTCTAAAGAGAAAGGAAAATTTGAAGATATGGCAAAGGC
GGACAAGGCCCCATTATGAAAGAGAAATGAAAACCTATATCCCTCCTAAAGGGGAGAAAAAAAAGAAAGTTCAAGGA
TCCCAATGCACCCAAGAGGCCCTCCTTGGCCCTTTTTCTGTTCTGCTCTGAGTATCGCCCCAAAATCAAAGGAGA
ACATCCTGGCCTGTCCATTGATGATGTTGTGAAGAACTGGCAGGGATGTGGAATAACCCGCTGCAGCTGACAA
GCAGTTTTATGAAAAGAAGGCTGCAAAGCTGAAGGAAAAATACAAAAAGGATATTGCTGCATATCGAGCTAAAGG
AAAGCCTAATTACGCAAAAAAGAGAGTTGTCAAGGCTGAAAAAGCAAGAAAAAGGAAGAGGAAGAAGATGA
AGAGGATGAACAAGAGGAGGAAAATGAAGAAGATGATGATAAATAAGTTGCTTCTAGTGACGTTTTTTTTCTTGTC
TATAAAGCATTTAAGCTGCCGTGTACACAACCTCACTCCTTTTTAAAGAAAAAACTTCAACGTAAGACTGTGTAAGA
TTTGTTTTTTAAACCGTACACTGTGTTTTTTTTGTATAGTTAAACCACTACCGAATGTGTCTTCAGATAGCCCTGTCC
TGGTGGTATTTAGCCACTAACCTTTGCCTGGTACAGTATGGGGGTTGTAAATTGGCATGGAATTTTAAAGCAGGT
TCTTGTTAGTGACAGCACAAATTAGTTGTATAGGAGGATGGTAGTTTTTTTACCTTCAGTTGTCTCTGATGTAG
CTTATACAAAACATTTGTTGTTCTGTAACTGAATGCCACTCTGTAATTGCAAAAAAAAACAGTTGCAGCTG
TTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTAAAAAACCGTATGAGGGAAGTGTGTAGACAAGG
TACCAGGTCAGTCTTCTTCCATGTTCTATTAGCTCCACAAAGCCAATCTCAATCCCTCAAACAATCTTGTGATA
CTTGAAGATATGACACTCTAGTCAAAGCCTTGGTAAAATAATCAGTGTTTCCAATCTGTCCTGTTACAAAAGAAA
CAGATTATTATTGAACCTTATGCAAATAACCATTGTCTATAAGAATGTTTATGAATAGTTTCCAAATTATGGCAAT
TCATGTAGAGAGAGAAAAGTAAGTGTGTTTGGTGTGCTCACAAAAGTCTACTTTACCTAAGGGCTGTCAGATATA
AGTAACTTAAAGAAAGAGAAGTTTTCTTGACTTTTGAAGCAAAAATATGAAAAGAATCGGCAATGTTTCAAACA
AAAAGTCATAAAAGTCACCTTATTCCTCCATCAAAAAAAAACCAAAAAA

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FIGURE 614

MAGGGGDLSTRRLNECISPVANEMNHLPAHSHDLQRMFTEDQGVDDRLLYDIVFKHFKRNKVEISNAIKKTFPFL
EGLRDRDLITNKMFEDESQDSCRNLVPVQRVVYNVLSELEKTFNLPVLEALFSDVNMQEYPDLIHIYKGFENVIH
KLPLQESEEEEEEREERSGLQLSLEQGTGENSFRLTWPPSGSPSHAGTTPPENGLSEHPCETEQINAKRKDTTSDK
DDSLGSQQTNEQCAQKAEPTECEQIAVQVNNGDAGREMPCLPCDEESPEAELHNHGIQINSCSVRLVDIKKEK
PFSNSKVECQAQARTHNNQASDIIVISSEDESEGSTDVDEPLEVFISAPRSEPVINNDNPLESNDEKEGQEATCSR
PQIVPEPMDFRKLSTFRESFKKRVIGQDHDFSESSEEEAPAEASSGALRSKHGEKAPMTSRSTSTWRIPSRKRRE
SSSDFSDLSNGEELQETCSSSLRGSGSQPQEPENKKCSCVMCFPKGVPQRSQEARTESSQASDMMDTMDVENNST
LEKHSGKRRKKRRHRSKVNGLQGRKKDRPRKHLTLNNKVQKKRWQQRGRKANTRPLKRRRKRGPRIKPDENINF
KQSELPVTCGEVKGTLYKERFKQGTSKKCIQSEDKKWFTPREFEIEGDRGASKNWKLSIRCGGYTLKVLNENKFL
PEPPSTRKKRILESHNNTLVDPCEEHKKKNPDASVKFSEFLKKCSETWKTIFAKEKGKFEDEMAKADKAHYEREMK
TYIPPKGEKKKKFKDPNAPKRPLAFFLFCSEYRPKIKGEHPGLSIDDVVKKLAGMWNNTAAADKQFYEKKAACL
KEKYKKDIAAYRAKGKPNsAKKRvVKAekSKKKKEEEDEEDEQEENEEDDDK

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FIGURE 615

GAGGCAGTTCTGTTGCCACTCTCTCTCCTGTCAAATGATGGATCTCAGAAATACCCCAGCCAAATCTCTGGACAAG
TTCATTGAAGACTATCTCTTGCCAGACACGTGTTTCCGCATGCAAATCGACCATGCCATTGACATCATCTGTGGG
TTCCTGAAGGAAAGGTGCTTCCGAGGTAGCTCCTACCCTGTGTGTGTGTCCAAGGTGGTAAAGGGTGGCTCCTCA
GGCAAGGGCACCACCCTCAGAGGCCGATCTGACGCTGACCTGGTTGTCTTCCTCAGTCCTCTCACCACCTTTTCAG
GATCAGTTAAATCGCCGGGGAGAGTTTCATCCAGGAAATTAGGAGACAGCTGGAAGCCTGTCAAAGAGAGAGAGCA
CTTTCCTGAAGTTTGAGGTCCAGGCTCCACGCTGGGGCAACCCCCGTGCGCTCAGCTTCGTACTGAGTTCGCTC
CAGCTCGGGGAGGGGGTGGAGTTCGATGTGCTGCCTTTCGATGCCCTGGGTGAGTTGACTGGCAGCTATAAA
CCTAACCCCCAAATCTATGTCAAGCTCATCGAGGAGTGCACCGACCTGCAGAAAGAGGGCGAGTTCTCCACCTGC
TTCACAGAACTACAGAGAGACTTCCTGAAGCAGCGCCCCACCAAGCTCAAGAGCCTCATCCGCCTAGTCAAGCAC
TGGTACCAAAATTGTAAGAAGAAGCTTGGGAAGCTGCCACCTCAGTATGCCCTGGAGCTCCTGACGGTCTATGCT
TGGGAGCGAGGGAGCATGAAAACACATTTCAACACAGCCCCAAGGATTTTCGGACGGTCTTGGAATTAGTCATAAAC
TACCAGCAACTCTGCATCTACTGGACAAAGTATTATGACTTTAAAAACCCATTATTGAAAAGTACCTGAGAAGG
CAGCTCACGAAACCCAGGCCTGTGATCCTGGACCCGGCGGACCCTACAGGAACTTGGGTGGTGGAGACCCAAAG
GGTTGGAGGCAGCTGGCACAAGAGGCTGAGGCCTGGCTGAATTACCCATGCTTTAAGAATTGGGATGGGTCCCCA
GTGAGCTCCTGGATTCTGCTGGCTGAAAGCAACAGTACAGACGATGAGACCGACGATCCCAGGACGTATCAGAAA
TATGGTTACATTGGAACACATGAGTACCCTCATTCTCTCATAGACCCAGCACGCTCCAGGCAGCATCCACCCCA
CAGGCAGAAGAGGACTGGACCTGCACCATCCTCTTGAATGCCAGTGCATCTTGGGGGAAAGGGCTCCAGTGTTATC
TGGACCAGTTCCTTCATTTTCAGGTGGGACTCTTGATCCAGAGAAGACAAAGCTCCTCAGTGAGCTGGTGTATAA
TCCAAGACAGAACCCAAGTCTCCTGACTCCTGGCCTTCTATGCCCTCTATCCTATCATAGATAACATTCTCCACA
GCCTCACTTCATTCCACCTATTCTCTGAAAATATTCCCTGAGAGAGAACAGAGAGATTTAGATAAGAGAATGAAA
TTCCAGCCTTGACTTTCTTCTGTGCACCTGATGGGAGGGTAATGTCTAATGTATTATCAATAACAATAAAAAATAA
AGCAAAATACCAAAAA

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FIGURE 616

MMDLRNTPAKSLDKFIEDYLLPDTCFRMQIDHAIDIICGFLKERCFRGSSYPVCVSKVVKGSSGKGTTLRGRSD
ADLVVFLSPLTTTFQDQLNRRGEFIQEIRRQLEACQRERALS VKFEVQAPRWGNPRALS FVLSSLQLGEGVEFDVL
PAFDALGQLTGSYKPNPQIYVKLIEECTDLQKEGEFSTCFTELQRDFLKQRPTKLKSLIRLVKHWYQNCKKKLGK
LPPQYALELLTVYAWERGSMKTHFNTAQGFRTVLELVINYQQLCIYWTKYDFKNPIIEKYLRRLTKPRPVILD
PADPTGNLGGGDPKGWRQLAQEAEAWLNYP CFKNWDGSPVSSWILLAESNSTDDETD DFRTYQKYGYIGTHEYPH
FSHRPSTLQAASTPQAEEDWTCTIL

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FIGURE 617

GGGGGGGTAGAGGAAGCCGTGAGGCCGGAGCTTAGGTCGGGAAGGGATGGATCGCTGAGCCGATAGCGTCCGCTA
GGCTGTCTGCCTCGGTACCTGTTACTGCTGCTACTTCCTCGTTTGACACCTTCCTGGAATCTCTCTTGATTTTTG
AGGAAATACCTAGTAACAAACATGACTGAGTTCTGGCTTATATCTGCTCCTGGGGAGAAAACCTGTCAGCAAACA
TGGGAGAAATTGCATGCGGCAACTTCAAAGAACAATAATCTTGCTGTCACTTCCAAGTTCAATATTCCTGACTTA
AAGGTTGGCACGTTGGATGTCTTGGTTGGCTTGTCAGATGAACTGGCTAAACTGGATGCATTTGTAGAAGGAGTG
GTTAAGAAAGTAGCTCAATACATGGCTGATGTATTGGAAGATAGCAAAGACAAAGTTCAAGAGAATCTGTTGGCT
AATGGAGTGGACTTGGTTACTTATATAACAAGGTTCCAGTGGGACATGGCCAAATATCCAATCAAGCAGTCCCTG
AAAAATATTTCTGAAATAATTGCCAAGGGAGTAACTCAGATTGATAATGACCTGAAATCTCGAGCATCTGCATAC
AATAACCTGAAAGGAAATCTTCAGAATTTGGAACGAAAGAATGCAGGAAGTTTGCTAACTAGAAGTCTAGCAGAA
ATTGTGAAGAAGGATGACTTTGTTCCTTGATTGAGAGTATCTCGTCACATTACTGGTAGTAGTTCCCAAGTTAAAC
CACAACGACTGGATTAAGCAGTATGAAACACTAGCCGAAATGGTAGTTCCAAGGTCTAGCAATGTTCTTTTCAGAG
GACCAAGACAGTTACCTGTGTAATGTCACCTTGTTTAGGAAGGCAGTTGATGACTTCAGACACAAAGCCAGAGAA
AACAAATTCATTGTTCTGTGACTTCCAGTATAATGAAGAGGAGATGAAAGCAGATAAAGAAGAAATGAACAGGCTT
TCTACTGATAAGAAAAACAATTTGGACCACTTGTACGGTGGCTGAAAGTGAATTTTAGTGAAGCATTATTGCA
TGGATTACGTGAAAGCATTACGGGTTTTCGTTGAGTCTGTTTTAAGGTATGGCTTGCCAGTGAACCTTCCAAGCA
ATGCTACTTCAGCCCAATAAGAAAACCTTTGAAGAACTGAGAGAAGTATTACATGAATTGTATAAACATCTAGAC
AGCAGTGCAGCAGCTATTATTGATGCTCCTATGGATATTCCAGGTTTAAACCTGAGTCAACAAGAATACTACCCC
TATGTGTACTACAAGATTGATTGCAACTTGCTGGAATTCAGTGAATGGGCTCCTCCCCGACAATCCTGTCC
TTGTGTTTGTGTGTGCTAACAGAAATAAGTTGCAGTATGGTCGTACTTTTAACTCTAGTATCCTTTGCTTGCTTC
TTACCCCCCTTTCCTAGGTGAATTCTCCACAGTGGTCTGTATCTCAACATTTTCTTTTTTAAAGGAAAAAATATAT
ATATATAGTTTCTTTTTATTGATCAGGTCTGTAAATGTGTACTAAAAAATCAGAGTTTATTTATAACAAAATA
GTTTATTTTAAAGAGAAGGTCTCTTCCTTATTGATATCATGGTATGCATTAATTCCATTTGTTACTATTGTGCACA
AAAGCCCTGTTTACAGGGGAATGGTGTAACATTTATACTGTTTGTTCAGTATTTAGTAGACATAACTGTTG
AATAGTTACTGAATCATGATGTAAAGAATATGTGACCATCTTCAGGTATGGGATTTCTGAACGTTTCAAATTTCA
ATCAATGAGCACTGTCAACACCCACAGGAGAGAATAAAATTACCTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 618

MTEFWLISAPGEKTCQQTWEKLHAATSKNNNLAVTSKFNIPDLKVGTL DVLVGLSDELAKLDAFVEGVVKKVAQY
MADVLEDSKDKVQENLLANGVDLVITYITRFQWDMAKYPIKQSLKNI SEIIAKGVTQIDNDLKSRASAYNNLKGNL
QNLERKNAGSLLTRSLAEIVKKDDFVLDSEYLVTL LVVVPKLNHNDWIKQYETLAEMVVPRSSNVLS EDQDSYLC
NVTLEFRKAVDDFRHKARENKFIVRDFQYNEEEMKADKEEMNRLSTD KKKQFGPLVRWLKVNFSEAFIAWIHV KAL
RVFVESVLR YGLPVNFQAMLLQPNKKT LKKLREVLH ELYKHL DSSAAAIIDAPMDIPGLNLSQQEYYPYVYYKID
CNLLEFK

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FIGURE 619

GTTCCTGTGTTTCGCTTGGGTAGAGGAAGCCGTGAGGCCGGAGCTTAGGTCGGGAAGGGATGGATCGCTGAGCCGAT
AGCGTCCGCTAGGCTGTCTGCCTCGGTACCTGTTACTGCTGCTACTTCCTCGTTTGACACCTTCCTGGAATCTCT
CTTGATTTTTGAGGAAATACCTAGTAACAAACATGACTGAGTTCTGGCTTATATCTGCTCCTGGGGAGAAAACCT
GTCAGCAAACATGGGAGAAATTGCATGCGGCAACTTCAAAGAACAATAATCTTGCTGTCACCTTCCAAGTTCAATA
TTCCTGACTTAAAGGTTGGCACGTTGGATGTCTTGGTTGGCTTGTCAGATGAAGTGGCTAAACTGGATGCATTTG
TAGAAGGAGTGGTTAAGAAAGTAGCTCAATACATGGCTGATGTATTGGAAGATAGCAAAGACAAAGTTCAAGAGA
ATCTGTTGGCTAATGGAGTGGACTTGGTTACTTATATAACAAGGTTCCAGTGGGACATGGCCAAATATCCAATCA
AGCAGTCCCTGAAAAATATTTCTGAAATAATTGCCAAGGGAGTAAGTCAAGATTGATAATGACCTGAAATCTCGAG
CATCTGCATACAATAACCTGAAAGGAAATCTTCAGAATTTGGAACGAAAGAATGCAGGAAGTTTGCTAACTAGAA
GTCTAGCAGAAATTTGTGAAGAAGGATGACTTTGTTCTTGATTCAAGATATCTCGTCACATTACTGGTAGTAGTTC
CCAAGTTAAACCACAACGACTGGATTAAGCAGTATGAAACACTAGCCGAAATGGTAGTTCCAAGGTCTAGCAATG
TTCTTTTCAGAGGACCAAGACAGTTACCTGTGTAATGTCACCTTGTTTAGGAAGGCAGTTGATGACTTCAGACACA
AAGCCAGAGAAAAACAAATTCATTGTTCTGACTTCCAGTATAATGAAGAGGAGATGAAAGCAGATAAAGAAGAAA
TGAACAGGCTTTTCTACTGATAAGAAAAACAATTTGGACCACCTTGACGGTGGCTGAAAGTGAATTTTAGTGAAG
CATTTATTGCATGGATTACAGTGAAAGCATTACGGGTTTTTCGTTGAGTCTGTTTTAAGGTATGGCTTGCCAGTGA
ACTTCCAAGCAATGCTACTTCAGCCCAATAAGAAAACCTTTGAAGAACTGAGAGAAGTATTACATGAATTGTATA
AACATCTAGACAGCAGTGCAGCAGCTATTATTGATGCTCCTATGGATATTCCAGGTTTAAACCTGAGTCAACAAG
AATACTACCCCTATGTGTACTACAAGATTGATTGCAACTTGCTGGAATTCAAGTGAAGTGGCTCCTCCCCCGA
CAATCCTGTCTTGTGTTTGTGTGTGCTAACAGAAATAAGTTGCAGTATGGTTCGTACTTTTAACTCTAGTATCCT
TTGCTTGCTTCTTACCCCTTTTCTAGGTGAATTTCTCCACAGTGGTCTGTATCTCAACATTTTCTTTTAAAGG
AAAAAATATATATATATATAGTTTCTTTTATTGATCAGGTCTGTAAATGTGTACTAAAAAATCAGAGTTTATTTA
TAAACAGAATAGTTTATTTAAAGAGAAGGTCTCTTCTTATTGATATCATGGTATGCATTAATTCCATTTGTTAC
TATTGTGCACAAAAGCCCTGTTTACAGGGGAATGGTGTAACATTTATACTGTTTTGTTTCACTGTATTTAGTAGA
CATAACTGTTGAATAGTTACTGAATCATGATGTAAAGAATATGTGACCATCTTCAGGTATGGGATTTCTGAACGT
TTCAAATTTCAATCAATGAGCACTGTCAACACCCACAGGAGAGAATAAAATTACCTGTGCAAAGGTGTATTGTGG
TGTGTGTAACCTAAGATTACAGTTCTGTTTGAGAGTTAAATGATGTCATAGCTCACTTGCTATGCTGCTTCCAGG
ATTTTGTATATGCTGAGGTGTAACCATTTGTGTTGTCTGACTTTCGTATGATTTAATTGAGCCAAATTTGGGTC
AGAACACAAATTTGAAGATGACTTTTTCAGTATATGATGGGTATTTACATTTGAACACTAGAATTTTAGGTCTCTC
AAATAATTAAGAATAGAGCCAGTTTTGAATAAAGTCTAGCAGAACTATG

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FIGURE 620

MTEFWLISAPGEKTCQQTWEKLHAATSKNNNLAVTSKFNIPDLKVGTLVDVLVGLSDELAKLDAFVEGVVKKVAQY
MADVLEDSKDKVQENLLANGVDLVITYITRFQWDMAKYPIKQSLKNISEIIAKGVTQIDNDLKSRASAYNNLKGNL
QNLERKNAGSLLTRSLAEIVKKDDFVLDSEYLVTLVVVPKLNHNDWIKQYETLAEMVVPSSNVLSAQDSYLC
NVTLEFRKAVDDFRHKARENKFIVRDFQYNEEEMKADKEEMNRLSTDKKKQFGPLVRWLKVNFEAFIAWIHV KAL
RVFVESVLRVGLPVNFQAMLLQPNKKTLLKKLREVLHELYKHLDSSAAAIIDAPMDIPGLNLSQQEYYPYVYYKID
CNLLEFK

FIGURE 621A

AAGACCTCTAGCCTTTTGTGTCCTTCTCTCGCGCCGGAGTGGCTGCAGCTACCCCTCAGTCTCCCTTTGGGGCCAG
 CTGGGAGCCGAGATAGAAGCTCCTGTGCGCGCTGGGCTTCTCGCCTCCCGCAGAGGGCCACACAGAGACCGGGAT
 GGCCACCTCCATGGGCCTGCTGCTGCTGCTGCTGCTGCTCCTGACCCAGCCCGGGGGCGGGGACGGGAGCTGACAC
 GGAGGCGGTGGTCTGCGTGGGGACC GCCTGCTACACGGCCCACTCGGGCAAGCTGAGCGCTGCCGAGGCCAGAA
 CCACTGCAACCAGAACGGGGGCAACCTGGCCACTGTGAAGAGCAAGGAGGAGGCCAGCACGTCCAGCGAGTACT
 GGCCAGCTCCTGAGGCGGGAGGCAGCCCTGACGGCGAGGATGAGCAAGTTCTGGATTGGGCTCCAGCGAGAGAA
 GGGCAAGTGCTGGACCTAGTCTGCCGCTGAAGGGCTTCAGCTGGGTGGGCGGGGGGAGGACACGCCTTACTC
 TAACTGGCACAAGGAGCTCCGGAACCTGTCATCTCCAAGCGCTGTGTGCTCTGCTGCTGGACCTGTCCAGCC
 GCTCCTTCCCAACCGCCTGCCCAAGTGGTCTGAGGGCCCCCTGTGGGAGCCAGGCTCCCCGGAAGTAACATTGA
 GGGCTTCGTGTGCAAGTTTACGCTTCAAAGGCATGTGCCGGCCTCTGGCCCTGGGGGGGCCAGGTGAGGTGACCTA
 CACCACCCCTTCCAGAGACCACAGTTCCTCCTTGAGGGCTGTGCCCTTTGCCCTCTGCGGCCAATGTAGCCTGTGG
 GGAAGGTGACAAGGACGAGACTCAGAGTCATTATTTCTGTGCAAGGAGAAGGCCCCCGATGTGTTGACTGGGG
 CAGCTCGGGCCCCCTCTGTGTGACCCCAAGTATGGCTGCAACTTCAACAATGGGGGCTGCCACCAGGACTGCTT
 TGAAGGGGGGATGGCTCCTTCTCTGCGGCTGCCGACCAGGATTCCGGCTGCTGGATGACCTGGTGACCTGTGTC
 CTCTCGAAACCTTTCAGCTCCAGCCCATGTCTGTTGGGGGGGCCACGTGCGTCTGGGACCCCATGGGAAAACTA
 CAGTGTCCGCTGCCCCCAAGGGTACCAGCTGGACTCGAGTCAGCTGGACTGTGTGGACGTGGATGAATGCCAGGA
 CTCCCCCTGTGCCCAGGAGTGTGTCAACACCCCTGGGGGCTTCCGCTGCCAATGCTGGGTGGCTATGAGCCGGG
 CGGTCTTGAGAGGGGGGCTGTGAGGATGTGGATGAGTGTGCTCTGGGTGCTGCGCTTGGCGCCAGGGCTGCAC
 CAACACAGATGGCTCATTTCAGTCTCTGTGAGGAGGGCTACGTCTGGCCGGGGAGGACGGGACTCAGTGCCA
 GGACGTGGATGAGTGTGTGGGCCCCGGGGGGCCCCCTCTGCGACAGCTTGTGCTTCAACACACAAGGGTCTTTCCA
 CTGTGGCTGCCTGCCAGGCTGGGTGCTGGCCCCAAATGGGGTCTCTTGACCATGGGGCCTGTGTCTCTGGGACC
 ACCATCTGGGCCCCCGATGAGGAGGACAAAGGAGAGAAAAGAGGGAGCACCGTGCCCCGCGCTGCAACAGCCAG
 TCCACAAGGGGCCCCGAGGGGACCCCCAAGGCTACACCCACCACAAGTAGACCTTCGCTGTCTATCTGACGCCCC
 CATCATCTGCCCCACTCAAGATGCTGGCCCCAGTGGGTCTCAGGCGTCTGGAGGGAGCCCAGCATCCATCA
 CGCCACAGCTGCCTCTGGCCCCCAGGAGCCTGCAGGTGGGGACTCCTCCGTGGCCACACAAAACAACGATGGCAC
 TGACGGGCAAAAGCTGCTTTTATTCTACATCCTAGGCACCGTGGTGGCCATCCTACTCCTGCTGGCCCTGGCTCT
 GGGGCTACTGGTCTATCGCAAGCGGAGAGCGAAGAGGGGAGGAGAAGAAGGAGAAGAAGCCCCAGAATGCGGCAGA
 CAGTTACTCCTGGGTTCAGAGCGAGCTGAGAGCAGGGCCATGGAGAACCAGTACAGTCCGACACCTGGGGACAGA
 CTGCTGAAGAGTGAGGTGGCCCTAGAGACACTAGAGTCACCAGCCACCATCCTCAGAGCTTTGAACTCCCCATTCC
 AAAGGGGACCCACATTTTTTTTGAAGAGCTGGACTGGAATCTTAGCAAAACAATTGTAAGTCTCCTCCTTAAAGGC
 CCCTTGGAACATGCAGGTATTTTTTCTACGGGTGTTTGATGTTCCGAAAGTGAAGCTGTGTGTTGGCGTGCCACGG
 TGGGGATTTGCTGACTCTATAATGATTGTTACTCCCCCTCCCTTTTCAAATTCGAATGTGACCAATTCCGGATCA
 GGGTGTGAGGAGGCTGGGGCTAAGGGGCTCCCTGAATATCTTCTCTGCTCACTTCCACCATCTAAGAGGAAAAG
 GTGAGTTGCTCATGCTGATTAGGATTGAAATGATTTGTTTCTTCTCTAGGATGAAAATAAATCAATTAATTAT
 TCAATTAGGTAAGAAGATCTGGTTTTTTTGGTCAAAGGGAACATGTTGCGACTGGAACATTTCTTTTACATTTGCA
 TTCTTCCATTTTCGCCAGCACAAAGTCTTGCTAAATGTGATACTGTTGACATCCTCCAGAATGGCCAGAAGTGCAAT
 TAACCTCTTAGGTGGCAAGGAGGCAGGAAGTGCCCTCTTAGTCTTACATTTCTAATAGCCTTGGGTTTATTGTC
 AAAGGAAGCTTGAAAAATATGAGAAAAGTTGCTTGAAGTGCATTACAGGTGTTTGTGAAGTCACATAATCTACGG
 GGCTAGGGCGAGAGAGGCCAGGGATTTGTTTACAGATACTTGAATTAATTCATCCAAATGTACTGAGGTTACCAC
 ACATTGACTACGGATGTGATCAACACTAACAAAGGAAACAAATTCAAGGACAACCTGTCTTTGAGCCAGGGCAGG
 CCTCAGACACCCTGCCTGTGGCCCCGCCTCCACTTCATCCTGCCCGGAATGCCAGTGCTCCGAGCTCAGACAGAG
 GAAGCCCTGCAGAAAGTTCCATCAGGCTGTTTCTTAAAGGATGTGTGAACGGGAGATGATGCACTGTGTTTTGAA
 AGTTGTCATTTTTAAAGCATTTTAGCACAGTTCATAGTCCACAGTTGATGCAGCATCCTGAGATTTTAAATCCTGA
 AGTGTGGGTGGCGCACACACCAAGTAGGGAGCTAGTCAGGCAGTTTGCTTAAGGAACTTTTGTCTCTGTCTCTT
 TTCTTAAATTTGGGGGTAAAGGAGGGAAGGAAGAGGGGAAAGAGATGACTAACTAAATCATTTTTTACAGCAAAAA
 CTGCTCAAAGCCATTTAAATTATATCCTCATTTTTTAAAGTTACATTTGCAAAATATTTCTCCCTATGATAATGCAG
 TCGATAGTGTGCACTCTTTCTCTCTCTCTCTCTCTCTCACACACACACACACACACACACACACACACACAGAGA
 CACGGCACCATTTCTGCCTGGGGCACTGGAACACATTCTGGGGGTACCGATGGTTCAGAGTCACTAGAAGTTACC

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FIGURE 621B

TGAGTATCTCTGGGAGGCCTCATGTCTCCTGTGGGCTTTTTACCACCACTGTGCAGGAGAACAGACAGAGGAAAT
GTGTCTCCCTCCAAGGCCCAAAGCCTCAGAGAAAGGGTGTTTCTGGTTTTGCCTTAGCAATGCATCGGTCTCTG
AGGTGACACTCTGGAGTGGTTGAAGGGCCACAAGGTGCAGGGTTAATACTCTTGCCAGTTTTGAAATATAGATGC
TATGGTTTCAGATTGTTTTTAATAGAAAACATAAGGGGCAGGGGAAGTGAAAGGAAAGATGGAGGTTTTGTGCGGC
TCGATGGGGCATTGGAACCTTTTTTAAAGTCATCTCATGGTCTCCAGTTTTCAGTTGGAACCTCTGGTGTTTAA
CACTTAAGGGAGACAAAGGCTGTGTCCATTTGGCAAACTTCCTTGCCACGAGACTCTAGGTGATGTGTGAAGC
TGGGCAGTCTGTGGTGTGGAGAGCAGCCATCTGTCTGGCCATTAGAGGATTCTAAAGACATGGCTGGATGCGCT
GCTGACCAACATCAGCACTTAAATAAATGCAAATGCAACATTTCTCCCTCTGGGCCTTGAAAATCCTTGCCCTTA
TCATTTGGGGTGAAGGAGACATTTCTGTCTTGCTTCCCACAGCCCCAACGCAGTCTGTGTATGATTCTGGGA
TCCAACGAGCCCTCTATTTTACAGTGTTCTGATTGCTCTCACAGCCCAGGCCCATCGTCTGTTCTCTGAATGC
AGCCCTGTTCTCAACAACAGGGAGGTGATGGAACCCCTCTGTGGAACCCACAAGGGGAGAAATGGGTGATAAAGA
ATCCAGTTCCTCAAAACCTTCCCTGGCAGGCTGGGTCCCTCTCCTGTGGGTGGTGTCTTTCTCTGCACACCACT
CCCACCACGGGGGAGAGCCAGCAACCCAACAGACAGCTCAGGTTGTGCATCTGATGGAACCCTGAGGCTCAA
ACACGTGCTTTATTTCTCTGTTTATTTTTGCTGTTACTTTGAAGCATGGAAATCTTGTTTGGGGGATCTTGGGG
CTACAGTAGTGGGTAAACAAATGCCACCGGCCAAGAGGGCCATTAAACAAATCGTCTTGTCTGAGGGGCCCCAG
CTTGCTCGGGCGTGGCACAGTGGGAATCCAAGGGTCACAGTATGGGGAGAGGTGCACCCTGCCACCTGCTAACT
TCTCGCTAGACACAGTGTTTTCTGCCCAGGTGACCTGTTTACGACAGCAGAACAAGCCAGGGCCATGGGGACGGGGGA
AGTTTTCACTTGGAGATGGACACCAAGACAATGAAGATTTGTTGTCCAAATAGGTCAATAATTCTGGGAGACTCT
TGGAaaaaactGAATATATTAGGACCAACTCTCTCCCTCCCTCATCCCACATCTCAAAGCAGACAATGTAAAG
AGAGAACATCTCACACACCCAGCTCGCCATGCCTACTCATTCCTGAATTTAGGTGCCATCACTGCTCTTTCTTT
CTTCTTTGTCAATTTGAGAAAGGATGCAGGAGGACAATTTCCACAGATAATCTGAGGAATGCAGAAAAACCAGGGC
AGGACAGTTATCGACAATGCATTAGAACCTGGTGAGCATCCTCTGTAGAGGGACTCCACCCTGCTCAACAGCTT
GGCTTCCAGGCAAGACCAACCACATCTGGTCTCTGCCTTCGGTGGCCACACACCTAAGCGTCATCGTCATTGCC
ATAGCATCATGATGCAACACATCTACGTGTAGCACTACGACGTTATGTTTGGGTAATGTGGGGATGAACTGCATG
AGGCTCTGATTAAGGATGTGGGAAGTGGGCTGCGGTCACTGTGCGCCTTGCAAGGCCACCTGGAGGCCTGTCTG
TTAGCCAGTGGTGGAGGAGCAAGGCTTCAGGAAGGGCCAGCCACATGCCATCTTCCCTGCGATCAGGCAAAAAAG
TGGAATTAaaaAGTCAAACCTTTATATGCATGTGTTATGTCCATTTTGCAGGATGAACTGAGTTTAAAGAATTT
TTTTTTCTCTTCAAGTTGCTTTGTCTTTTCCATCCTCATCACAAGCCCTTGTTTGAGTGTCTTATCCCTGAGCAA
TCTTTCGATGGATGGAGATGATCATTAGGTACTTTTGTTCACCTTTATTCTGTAAATATTTCTGTGAAAACCT
AGGAGAACAGAGATGAGATTTGACAAAAAAAATTGAATTAaaaaTAACACAGTCTTTTAAACTAACATAGGA
AAGCCTTTCTATTATTTCTCTTCTTAGCTTCTCCATTGTCTAAATCAGGAAAACAGGAAAACACAGCTTTCTAG
CAGCTGCAAAATGGTTTAAATGCCCCCTACATATTTCCATCACCTTGAACAATAGCTTTAGCTTGGGAATCTGAGA
TATGATCCCAGAAAACATCTGTCTCTACTTCGGCTGCAAAACCCATGGTTTAAATCTATATGGTTTGTGCATTTT
CTCAACTAAAAATAGAGATGATAATCCGAATTCTCCATATATTCACTAATCAAAGACACTATTTTCATACTAGAT
TCCTGAGACAAATACTCACTGAAGGGCTTGTTTAAAAATAAAATGTGTTTTGGTCTGTTCTTGTAGATAATGCCC
TTCTATTTTAGGTAGAAGCTCTGGAATCCCTTTATTGTGCTGTTGCTCTTATCTGCAAGGTGGCAAGCAGTTCTT
TTCAGCAGATTTTGCCCACTATTCTCTGAGCTGAAGTTCTTTGCATAGATTGGCTTAAGCTTGAATTAGATCC
CTGCAAAAGGCTTGCTCTGTGATGTCAGATGTAATTGTAAATGTCAGTAATCACTTCATGAATGCTAAATGAGAAT
GTAAGTATTTTTAAATGTGTGTATTTCAAATTTGTTTGACTAATTCTGGAATTACAAGATTTCTATGCAGGATTT
ACCTTCATCCTGTGCATGTTTCCCAAACCTGTGAGGAGGGAAAGGCTCAGAGATCGAGCTTCTCCTCTGAGTTCTAA
CAAAATGGTGCTTTGAGGGTCAGCCTTTAGGAAGGTGCAGCTTTGTTGTCTTTGAGCTTTCTGTTATGTGCCTA
TCCTAATAAACTCTTAAACACATT

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FIGURE 622

MATSMGLLLLLLLLLLTQPGAGTGADTEAVVCVGTACYTAHSGKLSAAEAQNHCNQNGGNLATVKSKEEAQHVQRV
LAQLLRREAALTARMSKFWIGLQREKKGKCLDPSLPLKGF SWVGGGEDTPYSNWHKELRNSCISKRCVSLLLDLSQ
PLLPNRLPKWSEGPCGSPGSPGSNIEGFVCKFSFKGMCRLALGGPGQVTYTTTPFQTTSSSLEAVPFASAANVAC
GEGDKDETQSHYFLCKEKAPDVFDWGSSGPLCVSPKYGCNFNNGGCHQDCFEFGDGSFLCGCRPGFRLLDDLVT
ASRNPCSSSPCRGGATCVLGPHGKNYTCRCPQGYQLDSSQLDCVDVDECQDSPCAQECVNTPGGFRCECWVGYEP
GGPGEACQDVDECALGRSPCAQGCTNTDGSFHCSC EEGYVLAGEDGTQCQDVDECVGP GGPLCDSL CFNTQGSF
HCGCLPGWVLAPNGV SCTMGPVSLGPPSGPPDEEDKGEKEGSTVPRAATASPTRGPEGTPKATPTTSRPSLSSDA
PITSAPLKMLAPSGSSGVWREPSIHHATAASGPQEPAGGDSSVATQNNDGTDGQKLLLFYILGTVVAILLLLLALA
LGLLVYRKRRRAKREEKKEKKPQNAADSYSWVPERAESRAMENQYSPTPGTDC

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FIGURE 623A

TGCCTCTGCTGAGGTGATCTGGCGCAGAGCGGAGGAGGTGCTTGGCGCTTCTCAGGCTCCTCCTCTCCCCCTTGCG
GCCTTTCTAACGTTGGCCCTGCTCTTGTGGCCTCCCGCAGAAATGTGGATGACGCCCAAAAGAAGCAAGATGGAAG
TCGACGAGGCTCTAGTTTTCCGGCCCCGAGTGGACCCAGCGTTATTTGGTGGTGGAGCCTCCGGAGGGCGATGGGG
CCCTGTGCCTGGTCTGTGCGCCGCTCATCGTAGCTACCCGCGAACGCGACGTCAGGCGCCACTACGAGGCTGAGC
ACGAATACTACGAGCGGTATGTGGCGGACGCGAGCGCGCGGCCCTGGTGGAGCGTCTGCGTCAGGGCGACTTGC
CCGTGGCCTCCTTCACTCCTGAAGAGAGAGCTGCTCGTGCAGGCCTCGGGCTCTGCCGCTCTTGGCCTTGAAGG
GTCGCGGCTGGGGTGAGGGGACTTTGTATACCAGTGCATGGAGGTGTTGCTGAGAGAGGTACTGCCCCGAGCATG
TAAGCGTCCTGCAAGGCGTTGACTTATCTCCAGATATCACAAGGCAGAGGATCCTGAGCATTGACAGGAATCTAC
GCAACCAGCTTTTTAACCGAGCCAGGGACTTTAAAGCCTATTCTCTTGCCTTGGACGACCAGGCTTTTTGTGGCCT
ATGAGAACTACCTCCTGGTCTTTATCCGCGGTGTAGGCCCTGAGTTGGAGGTGCAAGAAGATCTTCTGACCATAA
TCAACCTGACTCATCATTTTCAGTGTGGTGCCTCATGTGCGCAATCCTAGAGTCCCTGCAGACAGCAGGGCTTA
GCTTGCAGAGAATGGTTGGACTGACCACGACCCATACTTTGAGGATGATTGGTGAGAACTCAGGACTCGTCTCAT
ACATGAGAGAAAAGGCCGTAAGCCCCAACTGTTGGAATGTCATTATTATTAGGATTTCTTCACTTGGAACGTGT
TGAGCTCCTATGATGTAGATGTTAATCAGATCATAAATACCATATCCGAATGGATAGTTTTGATTAAGACCAGAG
GCGTTAGGCGACCTGAATTTTCACTTTTACTAACGGAATCTGAATCAGAGCATGGTGAAAGGGTTAATGGACGAT
GTCTGAACAATTGGCTTAGGAGAGGGGAAAACCTTTAAAACCTAATATTCTCTCTAAGAAAAGAAATGGAAGCGTTCT
TGGTTTCAGTAGGGGCAACAACAGTCCACTTCTCAGACAAACAATGGCTTTGTGACTTTGGCTTCTTGGTGGACA
TTATGGAACACCTTCGAGAATCAGTGAAGAATTACGAGTTAGTAAAGTCTTTGCTGCTGCTGCCCTTTGACCATA
TTTGTACTTTTGAAGTTAAGCTGAATTTATTTCAAAGACATATTGAGGAAAAAATCTAACAGACTTTCTGCC
TCAGAGAAGTTGTTGATGAGCTAAAACAGCAAAATAAGGAAGATGAAAAAATATTTGATCCTGATAGGTATCAA
TGGTGATCTGTCTCTCCAAAAGAATTTGAGAGACATTTTAAGGACCTCAGGTTTATTAAAAAGGACTTAGAAC
TTTTTTCAAATCCATTTAACTTTAAACCTGAATATGCACCTATTTTCACTGAGGGTGGAGCTAACAAAACCTCAGG
CAAACTAATCTTTGGAATGAATACAGAATCAAAGACTTGGGGCAGTTTTATGCTGGATTGTCTGCTGAATCCT
ACCAATTATCAAAGGGGTTGCCGTGAAGGTGGCATCCTTGTGTTGATAGTAACCAATCTGTGAAAAGGCTTTTT
CATATTTGACTCGAAACCAACACACTTTGAGTCAGCCATTAACAGATGAGCATCTCCAAGCCCTGTTTCGGGTTG
CCACAATGAAATGGAGCCCGGTTGGGATGACCTTGTGAGAGAAAGAAATGAATCTAATCCATTAAGGCTTTGTAG
TACAAGATTGAAAACTCAACAAGAATTTAATCTAAAAGCAAAATTTGGTTTGAGTTTTCAAGTTTACTAATTT
GGATTGTGAGAAAGTACCAAGTACCAGCCGTCCAACTGATCACAATTTAAATTTCTGACAGTTGCCCTTTTTTTTC
ATCTCAAATGGCAGCATGGGACTGAAACATGAGAATGCCACCTTTTTTAAACCTTAGTTTAGTGACAAAGTCATT
GTCTTTTATGATATAGTTAATTTTAAAGAGATTTAGTATTAATGTGAGTTGAATTTGCAGTCTGTTTTTTAGGTG
TTCTGAAGATAAATGCCAAAATTTTCACTCTTATTTTAAATGGAGTGTAAAATTTCTGATTATGATAGTCTTAA
TTATCAACTCCTTAAATGTGCTTTTGAACCAATTTGCAGAAGCTCACATAGCAAGTTTATAAGGTTCCAAAAGG
AAGCCCATACATAACAGTGGAGGTGTTTTGTCTAACCATCAAATGTTTGAGACTTTTTTTTTAAACATTTCTGAG
TTCGAAGGTAATACTGACAGATTTCTTCCCTCTTCCCTCCCCATCACCCACCTCAGTGATAACACATTACTGATA
GAGGAAGTCATTAGAATCATTTTTTAAGTTTCAAGATATAGGAGACTTCATGCAATTTGGAGATAAGACTAATTATT
GGGGGTTTTCTTGGATTTTTTTTTTAAATACTGGGGGCTATTTTATCAGCTTGCCCTATTAAAGGACTATGGTAA
GTATAGAATCTTAATGGTTGCCAGTTAGTAATTTCTTTTTTTTTTTTTTTTACTGTAGACACAAGTTTGGCCCTATC
AAAAACGATGAGGAAAAAAGATTGCACTCCAGGATTAGGAGGTGTGAGATATTTTAGCTTTTTTGTCTTATCTGC
GTGGGTATTGCTGCTTTATTTTTAAAAATCCTGCCTAAAGTAAACACTTTGTTTTAAATGATACAGTATCAGAT
TTTGTTAGATGCTAGAAATGGATTTATTCTAAAATTTGGAACCTGTCGTACACATTCTATATGTAAGATAGCACAC
AAGTAGAAAATATTTAAAGCAGTCTTATTTCAGAGATTGCAGTAATTCTGTATTTCTACTAAGATAATCTGCTTG
TGCCAAAACAGTAATTTCCAACTTCTGTTTACCATGAAAAGGCAATCTTAAAGTTCATTATGTAAACTAATTA
TAAACAGGACCCAATTTATATTATAGATCCTCTCAAGTATTATACAATTTAAAACCTCTTGTTCCAAAGTCTTG
TCTTAATCTATTGAAACACCTTAATCTGTGGTTACTAATCCAGCAAATCAAGGAACCAGGCTATGACTAAGAATT
TAGGTGGAATTGATGTCTGGGCAATTAAATAAATGGCATAAGAGCTTAAAAACCAAGTTGTGCCAGTGGCTTT
CAACTAGAGGCAGTAACCTGTCATTCCAGAGGATGCTGAGAAATGTGTAGGGGCACTTTTTTGGTTGTATATTT
ACTAGGGGCTTCTGTTGGCATTAAAGCCTAAAGACACTCACCCCTGCAGTGCATGGGACAGCCTGGCACAATGAA
GAATTAGCCCTCCCAAATGTAGATTATTTTATTTCAAGGGATAGGGCAGATTACCATTAGAAGCAAAATTA

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FIGURE 623B

GTACAAGCTGGGCAAACCTGACAGAATACTAGATAGGAGAGACTAATCCAACCTTCTAAATTTGGCTAGTAAAGT
GCAATAAAGGCATTGATAAGTTCTGTTAGCTCACCATAGCACTTGTAATCAGGAATTAATAATTGAATCAGATT
TAAGGGCTCTGTCCTGTTATACATATTTAAGGCAGAAAAAAAGTTACATGTCGATTAGGTACTTATCAAGAATGG
TCAAGCTGAGATTTTGGTTAATAGAGTAAGCTTACATATCTAGAGAAACAACATAGTGAAAAACCGAAAAAAAAA
AACAGAAAAATCTACCGGTAATTTCCCAGTAGCTTTGAATATTCACAGCAGAGCTTTATTACTTGAGAGAAAGAC
TGGAAGACCTGAAAGCCACTTCTGCTTTCTAACCCCAGTTCCTTAAATATTGAAATCTTGTACATTTTGTGAAAT
TCCAGTATGTTTTGCTTAAGGTGTTAATAAAATTAGTTTGCATCATGTAGTCATTGAGTGAGGGGGAGATATAAG
CCAAGGATTTTAAATTGACCCTTAGCTATAGAGAATTTGCTATAAGCTAGTCTTGTTTGT

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FIGURE 624

MWMTPKRSKMEVDEALVFRPEWTQRYLVVEPPEGDGALCLVCRR LIVATRERDVRRHYEAEHEY YERYVADGERA
ALVERLRQGDLPVASFTPEERAARAGLGLCRL LALKGRGWGEGDFVYQCMEVLLREVLPEHVS VLQGVDLSPDIT
RQRILSIDRNLRNQLFN RARDFKAYSLALDDQAFVAYENYLLVFIRGVGPELEVQEDLLTIINLTHHF SVGALMS
AILES LQTAGLSLQRMVGLTTTHTLRMIGENSGLVSYMREKAVSPNCWNVIHYS GFLHLELLSSYD VDVNQIINT
ISEWIVLIKTRGVRRPEFQTLLTESESEHGERVNGRC LNNWLRRGKTLKLIFSLRKEMEAF LVSVGATTVHFSDK
QWLCDFGFLVDIMEHLRELSEELRVSKVFAAAAFDHICTFEV KLNLFQRHIEEKNLTDFPALREVVD ELKQQNKE
DEKIFDPDRYQMVICRLQKEFERHFKDLRF IKKDLELFSNPFNFKPEYAPISVRVELTKLQANTNLWNEYRIKDL
GQFYAGLSAESYPIIKGVACKVASLFDSNQICEKAFSYLTRNQHTLSQPLTDEHLQALFRVATTEM EPGWDDLVR
ERNESNP

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FIGURE 625

ATGTCTCTTGTCAGCTGTCTTTTCAGAAGACCTGGTGGGGCAAGTCCGTGGGCATCATGTTGACCGAGCTGGAGAA
AGCCTTGAACCTCTATCATCGACGTCTACCACAAGTACTCCCTGATAAAGGGGAATTTCCATGCCGTCTACAGGGA
TGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGTTCAAAGA
GTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTCCTCATTCTGGTGATAAAGATGGGCGTGGCAGC
CCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCTGGACATG
TACCTGCAGAATAATAAAGTCATCAATACCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 626

MLTELEKALNSIIDVYHKYSLIKGNFHAVYRDDLKLLTECPQYIRKKGADVWFKELDINTDGAVNFQEFLLILV
IKMGVAAHKKSHKE

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FIGURE 627

[illegible]

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FIGURE 628

MGLLSQGSPLSWEETKRHADHVRRHGILQFLHIYHAVKDRHKDVLKWGDEVEYMLVSFDHENKKVRLVLSGEKVL
ETLQEKGERTNPNHPTLWRPEYGSYMIEGTPGOPYGGTMSEFNTVEANMRKRRKEATSILEENQALCTITSFPRL
GCPGFTLPEVKPNPVEGGASKSLFFPDEAINKHPRFSTLTRNIRHRRGEKVVINVPIFKDKNTPSPFIETFTEDD
EASRASKPDHIYMDAMGFGMGNCCLOVTFQACSISEARYLYDQLATICPIVMALSAASPFYRGYVSDIDCRWGV
SASVDDRTREERGLEPLKNNNYRISKSRYSIDSYSLSKCGEKYNDIDLTIDKEIYEQLLQEGIDHLLAQHVAHLF
IRDPLTLFEEKIHLDDANESDHFENIQSTNWQTMRFKPPPPNSDIGWRVEFRPMEVQLTDFENSAYVVFVLLTR
VILSYKLDFLIPLSKVDENMKVAQKRDAVLQGMFYFRKDIKGGNAVVDGCGKAQNSTELAAEYTLMSIDTIIN
GKEGVFPGLIPILNSYLENMEVDVDTRCSILNYLKLKIKKRASGELMTVARWMREFIANHPDYKQDSVITDEMYS
LILKCNQIANELCECPPELLGSAFRKVKYSGSKTDSSN

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FIGURE 629

CTGTGACACTGCCAGCAGCGCGCAGAGGGAGGGATGGGGGCGGGTATCGGCGTAGGGGGCCCTCGGAAAGAACGGA
TATTGCTGTGACACCGCGGGGACGCTCTGAAGGGACGAGTGTCTGGTGTGGCACC GGTCACGCTGAAGGAGCCGG
CGGAACCGGGTGGCCATGGGGATGTGGGCATCGCTGGACGCTTTGTGGGAGATGCCGGCCGAGAAGCGTATCTTC
GGGGCCGTGCTGCTCTTTTCTGGACAGTGTATCTTTGGGAGACCTTCCTAGCACAGCGGCAGAGAAGGATATAT
AAAAACAACAACATCATGTACCACCGGAGTTAGGACAGATCATGGATTCTGAAACATTTGAGAAATCTCGACTCTAT
CAACTGGATAAAAGCACTTTTCTGGTCTGGTCTAGGACTCTATTAGAGACTGAAGGCACCTTATTCTTCTCTTT
GGAGGAATACCTTATCTCTGGAGACTTTCTGGACGGTCTGTGGTTATGCTGGCTTTGGACCAGAATATGAGATC
ACTCAGTCCCCTGGTGTCTTCTGCTGTTGGCTACACTTTTCTAGTGCATTGACTGGTTTGGCATGGAGTCTTTATAAT
ACTTTTGTGATAGAAGAAAAACATGGCTTCAATCAACAGACTTTGGGGTCTTTCATGAAAGATGCAATCAAGAAA
TTTGTGTGACTCAGTGTATTTTGTGCTGTGCTTCACTTCTACTTTACATTATTAATAAATTTGGGGGTGACTAT
TTTTTTATTTATGCCTGGCTGTTTACATTAGTTGTGCTCTGCTTCTTGTGCTGCTATGCTGATTATATTGCC
CCTTTATTTGACAAATTCACACCTCTGCCTGAGGGGAAAGCTTAAAGAAGAAATTGAAGTAATGGCAAAGAGTATT
GACTTTCCCTTTGACGAAGGTGTATGTTGTGGAAGGATCTAAACGCTCTTCCCACAGCAATGCTTATTTTATGGC
TTCTTCAAGAACAAGCGAATAGTTTTGTTTGACACTCTACTAGAAGAGTACTCTGTACTAAACAAAGACATCCAG
GAGGATTCTGGCATGGAACCCCGCAATGAGGAAGAAGGGAACAGTGAAGAAATAAAAGCTAAAGTTAAAAATAAG
AAACAAGGATGTAAAAATGAGGAGGTACTCGCTGTACTAGGCCATGAAGTGGGGCACTGGAAGTTGGGACATACA
GTCAAAAAATATCATTATTAGCCAGATGAATTCTTTCTGTGTTTTTTTTTTATTTGCTGTATTAATTGGTCGAAAG
GAGCTTTTTGCTGCATTTGGTTTTTATGATAGCCAACCCACTCTTATTGGACTATTGATCATCTTCCAGTTTATT
TTTTACCTTACAATGAGGTTCTTTCTTTTGCCTAACAGTCTTAAGCCGAGATTTGAGTTTCAAGCTGATGCA
TTTGCCAAGAAACTTGGGAAGGCTAAAGACTTATATCTGCTTTAATCAAACCTTAACAAAGATAACTTGGGATT
CCTGTTTCTGACTGGTTGTTCTCAATGTGGCATTATTCTCATCTCCACTGCTAGAGAGACTTCAAGCTTTGAAA
ACTATGAAGCAACACTTGAGATGTCCAGGATCTGTGACTGAAGACATTTCTGATTATTTCTGTCTCTGGCAGCATGT
TCCAGCTCTTGATGTTTTTAACTTTTTTTTGAAGAAAAATTAAGTACAGAAAAGCCAGATTTAAATACATTT
AATATGTCATTTTAAAAATGATTTTAATAATTCACTTCTTAAACACTGAATGAATTTTGAAGCTTAATGTTTTT
AAAGGCATAGTTTTATCTTTGACATCTAATTTACCATCAAGTTGTAAATTTATTTGGAAAAATACAGAACTCGTT
TTATTTGTATACCTTATATGGAATCTGCATGTGAGGTGTTTGGGGCATATGTTTGAAAGAGGGAGCATCACCACA
GGAATCCTTTCTGTGAGGTGGAACAGTGGTCTGAATCATTGTGCTCACACCTAAGTGAATCTGGTCTTACT
TTCATGCTGTTATGATTTACCTGGTGAATCAGTGTTTTAAATAAGAAAGGTAATAGTTGGTAAGGCCAATGTTA
TTTAAATGAAAGTAGTTAGAAAAATGCTCTCCTATTCTACCAAATTTTTAATTTCTTTCTTCCCTTTCTTGCTAC
ACAGTGATCAAGAGTTTCTCATAGTGCTTTGAAGTTAGAAATTTATGTATAGGATATTTTAAATCATTGAGTTTTG
TGGGGTTTTTTTGTGTTGTTGTTTCTTTTGTGTTTTTGGAAAAATCCGTGCTTTTATCTTTTTTTTCCCACGTGGTAG
ATATGATCCCATTGGAGGTAAATTGTAGCTTCTTCTCATTATGCAGTAAATAATACATCCTTTCACTCAGCAGA
GATGGCCATATTAACACGTTTTGCTATGTTAAAGTGGCAGAACAGGAAAGACGAATTAATAATAACATTTTTT
AAGCGACATAAGGATGAAATACTGATGAATCTCTGTGACATTACAGGGAAAAAATATAGTTTTCTATCTCTTTC
AAGGGCAGAAAGATTTTCATTTTTATTTTTGTAATTTTATCTGTAAGTCATAAATATTACTTAATCAGGCCTGAT
TCTACTTTTTGAAAATTACAGTTCTTGAAATGCAGATAATGTTTACTTTGAAAACAAATGTCATGAATGATTTCCA
GTTTTTAAAGCTATATGTTTCACTGCTTCATATCTCTGTCCACTTTCTGAATGAGAACTTATTTTGTGCTAGAG
CTCTCACTCACTGATAATGCTTATTACCTTCTGGGCATTTATTCCAAAGTGGGATCAACTGTACGCCTTTGGTAT
CTGACCATAAAGTCTTTTGCTCCGCTGACATTTGGGTGATGTCTTCACATGGAAATATAATAAAAAATAAAAAATCT
AGTTTAATACTGCATTATTTATTTTCTAAGGCTAAAGAGGAGCAGTCTATGCTTTTATTTCAGCATCCTTTATC
TGTGACTTCATGCTCTGATAACTGCCTTTCTTCTTCTGTGCCTTTGAATACAAATTTTCAAGTTCTGCAAAAGTG
AAACATTAAACATTGCCAACGCAATGT

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FIGURE 630

MGMWASLDALWEMPAEKRIFGAVLLFSWTVYLVWETFLAQRQRRIYKTTTHVPPPELGQIMDSETFEKSRLYQLDKS
TFSFWSGLYSETEGTLILLFGGIPYLWRLSGRFCGYAGFGPEYEITQSLVFLLLATLFSALTGLPWSLYNTFVIE
EKHGFNQQT LGFFMKDAIKKFVVTQCILLPVSSLLLYIIKIGGDYFFIYAWLFTLVVSLVLVTIYADYIAPLFDK
FTPLPEGKLKEEIEVMAKSIDFPLTKVYVVEGSKRSSHSNAYFYGFFKNKRIVLFDTLLEEYSVLNKDIQEDSGM
EPRNEEEGNSEEIKAKVKNKKQGCKNEEVLAVLGHELGHWKLGHTVKNIIISQMNSFLCFFLFAVLIGRKELFAA
FGFYDSQPTLIGLLIIFQFIFSPYNEVLSFCLTVLSRRFEFQADAFAKKL GKAKDLYSALIKLNKDNLGFPVSDW
LFSMWHYSHPPLLERLQALKTMKQH

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FIGURE 631

CACCCTGTAAGTGGCTGCGGCGGGAAGATGGCGGAGCTGCGCGTGCTCGTAGCTGTCAAGAGGGTCATCGACTAC
GCCGTGAAGATCCGAGTGAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCCTTC
TGTGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTCATCGCCGTCAGCTGT
GGGCCTGCACAGTGCCAGGAGACGATTTCGTACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTG
CCCCAGCAGAAGCAGAACGCTTGGGTCCCCTGCAGGTGGCTCGGGTCCTGGCCAAGCTGGCAGAGAAGGAGAAG
GTGGACCTGGTGCTGCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGATTT
CTTGACTGGCCACAGGGCACATTTCGCCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGTGGAGCGGGAGATC
GATGGGGGCTGGAGACCCTGCGCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCTCAACGAGCCCCGC
TACGCCACGCTGCCCAACATCATGAAAGCCAAGAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGGGTGTG
GACCTGACCTCCAAGCTCTCTGTGATCAGTGTGGAGGACCCGCCCCAGCGCACGGCCGGCGTCAAGGTGGAGACC
ACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTTGAGCCCCCTCCAGAGATGGCAATAAAACTGAC
TCTCAACATCAAAAAAAAAAAAAAAAAA

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FIGURE 632

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEVIAVSCGPAQCQETI
RTALAMGADRGIHVEVPPAEAERLGPLQVARVLAKLAEKEKVDLVLLGKQAIDDDCNQTGQMTAGFLDWFQGTFA
SQVTLEGDKLKVEREIDGGLETLRLKLPAVVTADLRLNEPRYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVI
SVEDPPQRTAGVKVETTEDLVAKLKEIGRI

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FIGURE 633

GATAGGATCACCACGGTGGTAACCTCTCACATTGTCTTCTCCACAGGAGGCGTCTGACACAGTATGATGATGAAG
ATCCCATGGGGCAGCATCCCAGTACTGATCTTGCTCCTGCTCCTGGGCCTAATCGATATCTCCAGGCCCAGCTC
AGCTGCACCGGGCCCCCAGCCATCCCTGGCATCCCGGGTATCCCTGGGACACCTGGCCCCGATGGCCAACCTGGG
ACCCCAGGGATAAAAGGAGAGAAAAGGGCTTCCAGGGCTGGCTGGAGACCATGGTGAGTTCGGAGAGAAGGGAGAC
CCAGGGATTCTGGGAATCCAGGAAAAGTCGGCCCCAAGGGCCCCATGGGCCCTAAAGGTGGCCCAGGGGCCCT
GGAGCCCCAGGCCCCAAAGGTGAATCGGGAGACTACAAGGCCACCCAGAAAATCGCCTTCTCTGCCACAAGAACC
ATCAACGTCCCCCTGCGCCGGGACCAGACCATCCGCTTCGACCACGTGATCACCAACATGAACAACAATTATGAG
CCCCGCAGTGGCAAGTTCACCTGCAAGGTGCCCCGGTCTCTACTACTTCACCTACCACGCCAGCTCTCGAGGGAAC
CTGTGCGTGAACCTCATGCGTGGCCGGGAGCGTGACAGAAGGTGGTCACCTTCTGTGACTATGCCTACAACACC
TTCCAGGTCACCACCGGTGGCATGGTCCTCAAGCTGGAGCAGGGGGAGAACGTCTTCCTGCAGGCCACCGACAAG
AACTCACTACTGGGCATGGAGGGTGCCAACAGCATCTTTTCCGGGTTCTGCTCTTTCCAGATATGGAGGCCTGA

CCTGTGGGCTGCTTCACATCCACCCCGGCTCCCCCTGCCAGCAACGCTCACTCTACCCCCAACACCACCCCTTGC
CCAGCCAATGGACACAGTAGGGCTTGGTGAATGCTGCTGAGTGAATGAGTAAATAAACTCTTCAAGGCCAAGGAA
CAGTGGTCTAATTCAACTCTGTGTCCCAGCACTGGCACACCAGAAGTGCCATGCTCAGAAATGTTGGTTACATGA
ATGAATGAACCATGAATGAATG

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FIGURE 634

MMMKIPWGSIPVLILLLLLGLIDISQAQLSCTGPPAIPGIPGIPGTPGPDGQP GTPGIKGEKGLPGLAGDHGEFG
EKGDPGIPGNPGKVGPKGPMGPKGGPGAPGAPGPKGESGDYKATQKIAFSATRTINVPLRRDQTIRFDHVITNMN
NNYEPRSGKFTCKVPGLYYFTYHASSRGNLCVNLMRGRERAQKVVTFCDYAYNTFQVTTGGMVLKLEQGENVFLO
ATDKNSLLGMEGANSIFSGFLLFPDMEA

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FIGURE 635A

GGACTGTGTGTGTCTGGCTGTAGCAGACGCGAGGCGGCGACGAGGCGCCGGGGACCCGCGCGAGGGGCGGCCGGG
AGGCGGCGGCGGCGGCCGCCAGAAGTAGCAGCAGGACCGGCGGCGGCGACGGCAGCCCTGAAATGCATTTTCCTC
TCCAGCGGCCATGTTAACCAGGAAACCTTCGGCCGCGCTCCCGCCGCTACCCGACCGGCGGAGGTGGGGACAG
CGCCGTTCGTCAGCTTCAGGCTTCCCCGGGGCTCGGTGCAGGGCCCACCCGGAGCGGAGTGGGGACTGGCCCCGCC
CTCCCCCATCGCCCTGCCGCTCTCCGGGCCAGCAACGCTGCCGCCGACGCCACACGATTGGCGGCAGTAAGCA
CACAATGAATGATCACCTGCATGTCGGCAGCCACGCTCACGGACAGATCCAGGTTCAACAGTTGTTTGAGGATAA
CAGTAACAAGCGGACAGTGCTCACGACACAACCAAATGGGCTTACAACAGTGGGCAAAACGGGCTTGCCAGTGGT
GCCAGAGCGGCAGCTGGACAGCATTATAGACGGCAGGGGAGCTCCACCTCTCTAAAGTCCATGGAAGGCATGGG
GAAGGTGAAAGCCACCCCATGACACCTGAACAAGCAATGAAGCAATACATGCAAAAACCTCACAGCCTTCGAACA
CCATGAGATTTTCAGCTACCCTGAAATATATTTCTTGGGTCTAAATGCTAAGAAGCGCCAGGGCATGACAGGTGG
GCCCCAACAAATGGTGGCTATGATGATGACCAGGGATCATATGTGCAGGTGCCCCACGATCACGTGGCTTACAGGTA
TGAGGTCTCAAGGTCATTGGGAAGGGGAGCTTTGGGCAGGTGGTCAAGGCCTACGATCACAAAGTCCACCAGCA
CGTGCCCTAAAGATGGTGCGAATGAGAAGCGCTTCCACCGGCAAGCAGCGGAGGAGATCCGAATCCTGGAACA
CCTGCGGAAGCAGGACAAGGATAACACAATGAATGTCATCCATATGCTGGAGAATTTACCTTCCGCAACCACAT
CTGCATGACGTTTGAGCTGCTGAGCATGAACCTCTATGAGTCTCATCAAGAAGAATAAATTCCAGGGCTTCAGTCT
GCCTTTGGTTCGCAAGTTTGCCACTCGATTCTGCAGTGCTTGGATGCTTTGCACAAAACAGAATAATTCAGT
TGACCTTAAGCCCAGAACATTTTGTTAAAGCAGCAGGGTAGAAGCGGTATTAAAGTAATTGATTTTGGCTCCAG
TTGTTACGAGCATCAGCGTGTCTACACGTACATCCAGTCGCTTTTTACCGGGCTCCAGAAGTGATCCTTGGGGC
CAGGTATGGCATGCCATTGATATGTGGAGCCTGGGCTGCATTTTAGCAGAGCTCCTGACGGGTTACCCCTCTT
GCCTGGGGAAGATGAAGGGGACCAGCTGGCCTGTATGATTGAACTGTTGGGCATGCCCTCACAGAACTGCTGGA
TGCATCCAAACGAGCCAAAATTTTGTGAGCTCCAAGGGTTATCCCCGTTACTGCACTGTACGACTCTCTCAGA
TGGCTCTGTGGTCTTAAACGGAGGCCGTTCCCGGAGGGGGAACTGAGGGGCCACCGGAGAGCAGAGAGTGGGG
GAACGCGCTGAAGGGGTGTGATGATCCCTTTTCTTGACTTCTTAAACAGTGTTTAGAGTGGGATCCTGCAGT
GCGCATGACCCAGGCCAGGCTTTGCGGCACCCCTGGCTGAGGAGGCGGTTGCCAAAGCCTCCCACCGGGGAGAA
AACGTCAGTGAAAAGGATAACTGAGAGCACCGGTGCTATCACATCTATATCCAAGTTACCTCCACCTTCTAGCTC
AGCTTCCAAACTGAGGACTAATTTGGCGCAGATGACAGATGCCAATGGGAATATTACAGCAGAGGACAGTGTGGC
AAAACCTTGTTAGCTGAGCTCACGTCCCCTGATGCTGGTAACCTGAAAGATACGACATTGCTGAGCCTTACTGGGT
TGAAAAGGAGTAGCTCAGACCTGTTTTTATTTGCTCAATAACTCTACTCATTTGTATCTTTTCAGCACTTAATTT
TAATGTAAGAAAGTTGTTTATTTTATTTTATAAAATACATGAGGACAATGCTTTAAGTTTTTATACTTTTCAGAA
ACTTTTTGTGTTCTAAAAGTACAATGAGCCTTACTGTATTTAGTGTGGCAGAATAATAACATCAGTGGCAGGCCA
CTGATTACTTCATGACTGCCACGCATTTACAGATTGGTGTCAAAGACATTCATCTATGTTTTTATGGTTCATGTTA
TATCCTCCCCAGGGTGACAGCCCCTTAAGGCCCTCCTTTTCCCTCCATGCTCCAGGTCCATGCACAGGTGTAGCA
TGTCCTGCTTCCGTTTTTTCATAAATTAATCTGGGTGTTGGGGGTAGTGGGAGGAGAACGGTCAGAATCAAAGTGA
CATTCTAAGAAAACTGTACCTTAGAGATTTTCTCTAGTGCTCAAACAAATACAAAATAAGATCCCCAAGGTTT
AAACTGCCCAGTTAGCATTCTGACATTCTAAAAGCCGGCAAAGCAGCTTTTAGTGGATAAATGGGAATGGAAACG
TGTGTGTTCTCCAAATTTTCTAGTATGATCGGTGAGCTGTTTTGTAAAGAAGCCTCATATTACAGAGTTGCTTT
TGCACCTAAATTTAGAATTGTATTCATGAACGTGTTCCCTCCCTTTTCTCTGCTTTTCTCTCTGTTCTCTTT
TAATACCACACGTCTGTTGCTTGCAATTTAGTTTGTCTTCTTCTCAGCTGTGTATCCAGACTGTTAATACAGA
AAAGAGACATTTACAGTGTGATTATGACATTGTTTCATATTCCAATTAAAAAAGAACAGCAGCCTAGCTACTT
AAGGTGGGGATTTATAGTTCCAAAGAAGATTTAGCAGATTAGAGTGAGTTCACACTTTTCAGGTGCCACTGTAA
GGTTCTCTCAGCCTGGGAACTATCAACTCTTTCTTTAAAAAGAAAGAGGGTTGAAAATCCTCTGGACGAACAGA
AGTCACTTTGGCTGTTTCAAGGCAATGTTAACAACACGTTTAGAGGAGGAAAAGTTCAACCTCAAGTTAAAT
GGTTTGACTTATTTCTCGTATCATTAGAAGAACCCAGAGATAGCATTCCTCTATTTTATTTTACTTTCTTTTGG
ATTGCACTGATTGTTTTTGTGGGAATGACACTTTATCTGGCAAAGTAACTGAGAGTTTGGTAAAAGAATATTTTC
TTCTCTGAATAATAATTATTTTACAGTGAAAATTTTCACTAATGTATGAGCAATGATCTATATC
AATTTCAAGGCACGTGAAAAAATTTTTTAGTATGTGCAATTTAATATAGAAAGATTTCTGCCTGTTTGGACAAT
AGGTTTTGGGTAGTACAGATTAGGATAAGTAAGCTTATATATGCACAGAGATTATTGTATTACCTGTAAATTGAT
TTACAAGTACTTAAAAGCGTGGTCCCCAGTGAGGCCAAGAAAGTTCCGGTTAAGTTCTTTAATAATAATCTTAC

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FIGURE 635B

AGTTTATCTTAAGAA

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FIGURE 636

MLTRKPSAAAPAAYPTGRGGDSAVRQLQASPLGAGPTRSGVGTGPPSPIALPPLRASNAAAAAHTIGGSKHTMN
DHLHVGS SHAHQIQVQQLFEDNSNKRTVLTTQPNGLTTVGKTGLPVVPERQLDSIHRRQGSSTSLKSMEGMGKVK
ATPMTPEQAMKQYMOKLTAFEHHEIFSYPEIYFLGLNAKKRQGMTGGPNNGGYDDDQGSYVQVPHDHVAYRYEVL
KVIKGSGFGQVVKAYDHKVHQAVALKMRNEKRFHRQAAEEIRILEHLRKQDKDNTMNVIHMLENFTFRNHICMT
FELLSMNLIELIKKNKFQGFSLPLVRKFAHSILQCLDALHKNRIIHCDLKPENILLKQQGRSGIKVIDFGSSCYE
HQRVYTYIQSRFYRAPEVILGARYGMPIDMWSLGCILAEELLTGYP LLPGEDEGDQLACMIELLGMP SQKLLDASK
RAKNFVSSKGYPRYCTVTTLSDGSVVLNGGRSRRGKLRGPPESREWGNALKGCDPLFLDFLKQCLEWDP AVRMT
PGQALRHPWLRRLPKPPTGEKTSVKRITESTGAITSISKLP PPSSSASKLRTNLAQMTDANGNIQQRTVLPKLV
S

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FIGURE 637A

CTCGCAGCGCTTCCAGCTCCCCGCGCCCCTATGTGAGGGAGACGGGGAGGCCCGCGGCGCGCAGGGGAGGGCGAG
GCATGTGCACGGGCCGAGGGTGCTGCAGCCGCCCCGAGGAAGAGGAGGACGGCGGCGAGGAGGAGAGCGGGGGGC
TCGGCGCGGCGGGCCCCGGCCGAGGGGATGCAGTGGACTGTGTGTGTCTGGCTGTAGCAGACGCGAGGCGGCGAC
GAGGCGCCGGGGACCCGCGCGAGGGGCGGCCGNNNNNNNNNNNNNNNNNNNNNCAGAAGTAGCAGCAGGACCGGC
GGCGGCGACGGCAGCCCTGAAATGCATTTTCTCTCCAGCGGCC**ATGT**TAACCAGGAAACCTTCGGCCGCGCTC
CCGCCGCTACCCGACCGGCCGAGGTGGGGACAGCGCCGTTCTGTCAGCTTCAGGCTTCCCCGGGGCTCGGTGCAG
GGGCCACCCGGAGCGGAGTGGGGACTGGCCCGCCCTCCCCATCGCCCTGCCGCTCTCCGGGCCAGCAACGCTG
CCGCCGAGCCACACGATTGGCGGCAGTAAGCACACAATGAATGATCACCTGCATGTGCGCAGCCACGCTCACG
GACAGATCCAGGTTCAACAGTTGTTTGAGGATAACAGTAACAAGCGGACAGTGCTCACGACACAACCAATGGGC
TTACAACAGTGGGCAAACGGGCTTGCCAGTGGTGCCAGAGCGGCAGCTGGACAGCATTATAGACGGCAGGGGA
GCTCCACCTCTCTAAAGTCCATGGAAGGCATGGGGAAGGTGAAAGCCACCCCATGACACCTGAACAAGCAATGA
AGCAATACATGCAAAACTCACAGCCTTCGAACACCATGAGATTTTCAGCTACCCTGAAATATATTTCTTGGGTC
TAAATGCTAAGAAGCGCCAGGGCATGACAGGTGGGCCCAACAATGGTGGCTATGATGATGACCAGGGATCATATG
TGCAGGTGCCCCACGATCACGTGGCTTACAGGTATGAGGTCTCAAGGTCATTGGGAAGGGGAGCTTTGGGCAGG
TGGTCAAGGCCTACGATCACAAAGTCCACCAGCACGTGGCCCTAAAGATGGTGCGAATGAGAAGCGCTTCCACC
GGCAAGCAGCGGAGGAGATCCGAATCCTGGAACACCTGCGGAAGCAGGACAAGGATAACACAATGAATGTCATCC
ATATGCTGGAGAATTTACCTTCCGCAACCACATCTGCATGACGTTTGAGCTGCTGAGCATGAACCTCTATGAGC
TCATCAAGAAGAATAAATTCCAGGGCTTCAGTCTGCCTTTGGTTCGCAAGTTTGCCACTCGATTCTGCAGTGCT
TGGATGCTTTGCACAAAAACAGAATAATTCAGTGTGACCTTAAGCCGAGAACATTTTGTTAAAGCAGCAGGGTA
GAAGCGGTATTAAAGTAATTGATTTTGGCTCCAGTTGTTACGAGCATCAGCGTGTCTACACGTACATCCAGTCGC
GTTTTTACCGGGCTCCAGAAGTGATCCTTGGGGCCAGGTATGGCATGCCATTGATATGTGGAGCCTGGGCTGCA
TTTTAGCAGAGCTCCTGACGGGTTACCCCTCTTGCCCTGGGGAAAGATGAAGGGGACCAGCTGGCCTGTATGATTG
AACTGTTGGGCATGCCCTCACAGAACTGCTGGATGCATCCAAACGAGCCAAAAATTTGTGAGCTCCAAGGGTT
ATCCCGTTACTGCACTGTCTCAGACTCTCTCAGATGGCTCTGTGGTCTTAAACGGAGGCCGTTCCCGGAGGGGA
AACTGAGGGGGCCACCGGAGAGCAGAGAGTGGGGTAACGCGCTGAAGGGGTGTGATGATCCCTTTTCTTGACT
TCTTAAACAGTGTTTAGAGTGGGATCCTGCAGTGCAGTACCCAGGCCAGGCTTTGCGGCACCCCTGGCTGA
GGAGGCGGTTGCCAAAGCCTCCACCGGGGAGAAAACGTCAGTGAAAAGGATAACTGAGAGCACCGGTGCTATCA
CATCTATATCCAAGTTACCTCCACCTTCTAGCTCAGCTTCCAACTGAGGACTAATTTGGCGCAGATGACAGATG
CCAATGGGAATATTACAGCAGAGGACAGTGTGGCAAACCTTGTTAGCT**AG**CTCACGTCCCCTGATGCTGGTAAC
CTGAAAGATACGACATTGCTGAGCCTTACTGGGTTGAAAAGGAGTAGCTCAGACCTGTTTTTATTTGCTCAATAA
CTCTACTCATTTGTATCTTTTCAGCACTTAATTTTAATGTAAGAAAGTTGTTTATTTTATATAAAATACAT
GAGGACAAATGCTTTAAGTTTTTATACTTTTCAGAACTTTTGTGTTCTAAAAGTACAATGAGCCTTACTGTATTT
AGTGTGGCAGAATAATAACATCAGTGGCAGGCCACTGATTACTTCATGACTGCCACGCATTTACAGATTGGTGTG
AAAGACATTCATATGTTTTTATGGTTCATGTTATATCCTCCCCAGGGTGACAGCCCTTAAGGCCCTCCTTTTC
CCTCCATGCTCCAGGTCCATGCACAGGTGTAGCATGTCTGCTTCCGTTTTTCATAAAATTAATCTGGGTGTTGGG
GGTAGTGGGAGGAGAACGGTCAGAATCAAAGTGACATTCTAAGAAAACTGTACCTTAGAGATTTTCTCTAGTG
CTCAAAACAAATACAAAATAAGATCCCCAAGGTTAAACTGCCAGTTAGCATTCTGACATTCTAAAAGCCGGCAA
AGCAGCTTTTAGTGGATAAATGGGAATGGAAACGTGTGTGTTCTCCAAATTTTCTAGTATGATCGGTGAGCTGT
TTTGTAAGAAGCCTCATATTACAGAGTTGCTTTTGCACCTAAATTTAGAATTGTATTCATGAAGTGTCTCTCC
CTTTTCTCTGCTTTTCTCTCTCTGTTCTCTTTTAATACCACACGTCTGTTGCTTGCATTTAGTTGTCTTCTT
CCTTCAGCTGTGTATCCAGACTGTTAATACAGAAAAGAGACATTTACAGCTGTGATTATGACCATTGTTTCATAT
TCCAATTAAGAAAAGAACAGCAGCCTAGCTACTTAAGGTGGGGATTTCCATAGTTCCAAGAAGATTTAGCAGAT
TAGAGTGAGTTCACACTTTTTCAGGTGCCACTGTAAGGTTCTCTCAGCCTGGGAACTATCAACTCTTCTTTAA
AAGAAAGAGGGTTGAAAATCCTCTGGACGAACAGAAGTCACTTTGGCTGTTTCAGTAAGGCCAATGTTAACAAC
GTTTAGAGGAGGAAAAGTTCAACCTCAAGTTAAATGGTTGACTTATTCTTCGTATCATTAGAAGAACCCAGAG
ATAGCATTCCTCTATTTTATTTTACTTTCTTTTGGATTGCACTGATTGTTTTTGTGGGAATGACACTTTATCTGG
CAAAGTAACTGAGAGTTGGTAAAAGAATATTTCTCTCTGAATAATAATTATTTTACAGTGAAAATTTTCAGT
ATTTTATCACTAATGTATGAGCAATGATCTATATCAATTTCAAGGCACGTGAAAAAATTTTTTAGTATGTGCAA

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FIGURE 637B

TTTAATATAGAAAGATTTCTGCCTGTTTGGACAATAGGTTTTGGGTAGTACAGATTAGGATAAGTAAGCTTATAT
ATGCACAGAGATTATTGTATTACCTGTAAATTGATTTACAAGTACTTAAAAGCGTGGTCCCCAGTGAGGCCAAGA
AAGTTTCCGGTTAAGTTCTTTAATAATAATCCTACAGTTTATCTTAAGAAAAAAAAAAGGTTTGAAAAAACAC
TTAATTTAGGCTTCGTTGGTTGATGGTGAAAAAATGCTCAGGAAATATTTTACAGATATTTGCCAAAAACCAG
TAATAAGGTTACCTTATTAAAATAGTGATATTTGCTTTACTATTTAAGGTGTCAGTGATAAATTAATTTGTACTT
CTGTGTTTAGAAATTATAGCTTCTTTTCCCTTAGTCAAATTTTTTAGCATATTATACACATTTCTGTGTAATCTG
TGGAAGTGCAATAATATGTTAGTAAGTTACATTTTAAATAATGCTCATGTGACAATACTCCCAATCAATGGCTTA
TAGAATTTAAAGATCTGTATATTAGATTTTGGCTTAAAGGCATGAGAAGTATAAGACTTGGTTTGGTGGCTTTGT
AAGACCACCAGCCTCTTAATGATGGTTAGCTTCTTTAGGTCATTAAATCAATAAAAAACATATAATGCTGTTTTGC
TCTTCTAATGCTCCTCTTCCATTTCCAGTTATCTTCACATTTACATTTAAATATACAAACCTGAGCCCGCCATTA
TTAATTTCCCTATAAAATGACGATACATGTGAACATTTATAAATGGACTAATACTGCTTGTCTTTCCCCCACC GC
ACAAAACCTGGTTCTTAAGATGCCAGCAATGAATTTGAGACTATCTTTATTTATAAATGGAAACCGGAAACTTTTA
TACCAAACCTATAAATGTGCAGCACTGTAGGGCTTTTTTTTTTTTTTCCCTCCAAATACAGTGAAATTTTTTTATT
CACAAGAGCTGCCACATCTCAGCATTTAGTAATAGAGCTGCTTTAATAAAATTCTAGTTTGATTGTCAATGTCAA
AAAAGAAAAATGTTGCATCTTTGTGATTTTAAAAACATAAATTAATGAAGGCTCTGATAGGCTATTAGGAGTTGGC
TTGGAAACAGTTTTTGGTCTCACAGGTTACCATTGTTTGGGGATGTCTGAGCTGTTTTCAGATCTAGGAATAGCA
CAGTGTGTCTTGTCTTTGGCAGTCTCATTTGGCTCTGTTTCTTGCAACCACCAGCATGTTTATTACCCTTAAAT
ATATTGCTACAGCAGTGGAACAACAGAGTGGTGCAAGACACTGTAGATTAACGGTAGAGGAGAAATGTGCCCTT
AGTGTTAACAATGTGCCTTTTTGTTCTGAATGCCATGTTGTAGGGCATGCATTTTTTGGCCTCTTTAACTCTTCGA
ATTCTAGTCAGTAAGAATGGAACCCATCTCTGCAAAGATACATCTGTCTTAAATATCTAGTTACAGGCCTTAATA
GAAACCATAAGGCATGACTCATCTTCAGGCCTGAAAAAAGATAACCATCAGGTAGTGTTACACAAGGACTTCCT
ATATTTAAGGGGTTAAAGATGGTCTTTGTTGTATCTTAACATCAGACTGATTTTTACATTTTTTTTTTGTATGC
TAACACTAGACAAAAATCAACTGTATTTGTAAAAATTTACCTCAAACCATTTAATTTTATAGTGTGATTAATCCC
AGGGCATTGTTGATGAACCAAAGTGCATTCCCTTTATATGTGCCTGGCTCTAGTAAGGATGGCCAGGGATTTTTTA
CAATTTGGGTGCAAGGCACCTTAAGCCACTTTTAACTTAATGGGTGGTTTGGGGTTCGTGTTAAATGACCCCATCA
GAATGTTAGAAAACACTTTAGGCATCAGTAGCATTGGGCCATATTGGAATCCTAAAGTGTGAATTATTTTAAGGA
GAGCATTCATTTTTGTAATTTTTTTCATCAAAAAATATTCTGGTAAGCAGAAGACTTTTTAAAAAACTGATCTG
GTCTCGGTAAAGGTTTTAATATTGCCAACATAATGCTGTAATAGCATTAAAAAAGTATTTGTGAACCTCTGTTT
CTTAGGGGCTTGATACATCTCTCTGCTATGGACATACATAAAATTAATTGTAATTATACTCAGCTCAACTGCTACA
GTTCTGTCTAGGCAGTGGCTTGGGTTTTTATCGAGCAACAACCTTAGACACGTGACTGTAATATGCTGCAACTGTG
TGTACTGAAAATATGTGAAAATGGTTGAATGTGGACTGTGTATATATGTATGTAAAAATTTCTGTGAGATGCTGC
TGTCGCCACTTAACATTAAATATGTTCTAGTGGATTTAATCCTAGTGGCCAGTTCTATGATACTGTATGTATTA
TACAGCTGATGACAGGAGTAAGACTGTTTAGTGAATATCTGTTAAATTTTATTGTTGTGGCCAGAGATAATTTCA
GAATAAAATTTTAATGTCTACCTTACTTCTCTCCCTTTCTAACTATAATTTAACTCCTGATCTATTTCTGGTA
TTATCCTTTGTCAATTAGCCTGGAGAGGGTTAGAATGCAAATGGATAGCTCTATATCAGGGTCTTGAGAAGTT
AAAAATAATTCATTCTACTAGTTTGTTTCATAGCAATACTTTATTAGTTCAATATAAGTATGCAGATTCCAAGTGGA
AAAACAAAGGTTTTAGTAAGTAGTTCTTGCTTTTCCCAGGATATTCTATTCCTTCACCTGTCAGATTTTTTATGTT
AACTTTTTTATATATAGCCTCTGCTGTGTTCTTTATTATGCTAGAGCTTCATATCTTCTTTTATTTTTAACCTTCA
CAATGATAGTTAAGCTGGGGGAGCAGAACCTGTCAATTATTCCCCACCAGTCTTCATTCTTTTCTCTGCACAAGT
TCTGGTAAATTAATCTAATGTGCTCTAACCAGTTCCACCCAATGTTTTTAAATGCTTATGAGTTTGCAGTTTTTG
TACTTGGTGGTCTCTGTGGTTTACATTTTTTTGTGTTGTAGTGTCTCCTGCCTCGGTTGGCTCAGAAAAATAAGGC
CTAGGAACCTGCAATTAGCTCATGATTTGTCAAGTTCAGTTAGTACCAAGCTAAGAGTTTACTTACAGATGACAGC
AAGCAGATGCTCTAGTAATTCGTCAGACATTGCAGGGATATTGTGTAGTCAGATATTACCCTCTTGTGGAAAGAA
CTACCTCACATCATTATTTATTTCCCTTCTGTTACCAACAGCCAAGGAATTACTTAGTGTGGCTCCCTGCATCAA
TACTGGGATATGCTTAAACAAGGGAATGCCATAAGAGTTCCCAATTGCCTCGTCATAGCCTGGGCCATAGATTTT
TGTTACTGCTAATCTTGCTTCTTAAAGTTCACACCCAGTGCAAAAAACCCAATCAGCAAACCTAACCCCAAAATCC
AATATATTTAGAAATGTAAGTGTTAAGAGATGTGCATTATGTACAAAATTGAAAATTGGTGCTAAAGTGGCAATG
TCAATTTAAAAATTTCTTGTCCAGATCTGACTGACTGACTCAGGAGATTATAGTTTCTACTCATTCTCTTCTCTT

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FIGURE 637C

TATCAGATCTTTCAAAAGCGCTTTTTAAAATTGATCAATGTGCAATTCTGTTTGAGTCTCTACAGTCCTATCCCT
TTTGGAATGAACAGCTACACAAATAAATATTCTTGGAACCTCGAAGTTGTCTTCAAACCTAGCTCTAGAAAATGTC
CCTAGTTGACATTAGTGTTGGTCTGTTAGAAGGGGAAATTGATTTGACTGCTTCATGTTTTGAAAAGAGCATTAA
GAGGGATTTGAGGAAGGTATATGTGGCTTTCTTTTTCTTAAGTTTGAATTACACTTGATTTCCCTTTGGGTTATT
AGGCAGATAAACCTTTGTCATTAGTAATACTTAGCACTGTCCAAAATGAAAAATGACTGCCAGTGTGTTGCACAT
ACATAAGAAAATTACATCTTACTGCGAAGTCTTTGGTTTGTTCCTTATTTGGTTTGACTTTGACTTACTATTTT
GCTATGGTCATATCCTTAATATCTGCGGTACATTTCATATGTATATATGTTGGGTGGGAGCATAATTGCCATTCCCA
TGTGTCTCAAGGAAGCTTAATGAGGAACTAATGAGTTAATATTAACCTCTTCTGAAGAAAGCTGACATTTTAGGA
GTATTAAGTCATCTGTCGTTAAGGAGCAGCAAGAATATATTATGATTGTATCACATGTTCCAGAAGAGCATTACC
CCTTACATAGAAAGCTCCTTGGAGATTTTCATGATGTTGGATGAACATCAGTTTATCCTTATACATCCCTATGAGC
TATAATTATCCTCATTGATACTTGAGGAACTGAAGTGACTTGCTCCAAAGTGACTACAAAAACATTGCAGTTT
GAGGCTTAGGTTGTAATCAGGTAATTTTGGTCTTGGACAGTAAGGGAAAATCCATAATACATAAAACACAAAAGT
TTAGAAAAGGGGGGGAAGTTGAGCTAGCAATGGGCATTTCTATTATTTAAGTTACATATCAGTTTCCAGGAATATT
TTTCAAATGGGACAACTAAAAAGTTGAGGACTAGAGCATCGTAGTGTCTAAGTGCACCTAATAACTTAATGCAT
GTGCACACACCCTCAGTTAATTTGTAAGAGAGTGACTTCTCATTGTTATTTGTGGAGAGGCTAATTATAGTAGCT
TCATTCTTTATTTTCTGTGTTCTTAAATTTTTTTTTTACATTTGAAAGTATGAAAATACTATTTTTGACACTTTAC
TGATACTCAGGGATTAAAAGTTAAATTTTACTGACTGTAGCAGCAGGTAAATCTCTTAAATTTACTCAGGTTTCC
TATCCTTTGCCTCCATATTTAAGAAAATATAGAATGCCTGCCAGGGAAATATATAAAAAATAAAAATTTCAAATAC
AATTTTAAAAATACCAATTTGTAAATAAACCAATTTTACAACTAAAATATTGTGTCTTTTCTTGCTTTTTATCCC
AATTTATCTCCCCTCCTAAGTTTGAGGAGTTTTATATATTAAGGCTATTTCTTCATTTGTAAAAATGAAGTATGC
TATTTGCAAAGCAAAGCCCATGAAAAGCCCCAAATCATTTAAGTAAAGCTTACTGAATTGTTTTCAATTGTTTT
GGGAGAAATGTAACATAATTATAAGCAATTTATGTGGACCAGCAGCAAATAAATGTATGAGTACATTTGGGA

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FIGURE 638

MLTRKPSAAAPAAIPTGRGGDSAVRQLQASPLGAGATRSVGTGPPSPIALPPLRASNAAAAHTIGGSKHTMN
DHLHVGS SHAHQIQVQQLFEDNSNKRTVLTTQPNGLTTVGKTGLPVVPERQLDSIHRRQGSSTSLKSMEGMGKVK
ATPMTPEQAMKQYMQKLTAFEHHEIFSYPEIYFLGLNAKKRQGMTGGPNNGGYDDDQGSYVQVPHDHVAYRYEVL
KVIKGSFSGQVVKAYDHKVHQAVALKMRNEKRFHRQAAEEIRILEHLRKQDKDNTMNVIHMLENFTFRNHICMT
FELLSMNLIELIKKNKFQGFSLPLVRKFAHSILQCLDALHKNRIIHCDLKPENILLKQQGRSGIKVIDFGSSCYE
HQRVYTYIQSRFYRAPEVILGARYGMPIDMWSLGCILAEELLTGYP LLPGEDEGDQLACMIELLGMP SQKLIDASK
RAKNFVSSKGYPRYCTVTTLSDGSVVLNGGRSRGKLRGPPESREWGNALKGCDPLFLDFLKQCLEWDFAVRMT
PGQALRHPWLRRRLPKPPTGEKTSVKRITESTGAITSISKLP PPS SASKLRTNLAQMTDANGNIQORTVLPKLV
S

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FIGURE 639

GGCACGAGGGTAGCTTTCCAACATAAAGTGGAGGTTTCAACACAGGAGACTTTAAGCAAGTTCCAGTGTGTCTAT
ATTTGGTCTGGCTGATCGGCTGGACTCTGGCCTTCCCCGCTCACGTTAGCAGACAGCTCTGCCCTAGTGGGCGCT
TAGCCTGCGACGGCAGCCCCGAGAGGATGCTCTAACAAGCTTCTTTCTCCCCACCCCATTTCAGTTGTTCTCAGGTC
TGAATTCAAAATGGCCTCATCTCCTGCTGTCCTTCGAGCGTCCCGGCTGTACCAATGGAGCCTGAAGAGTTTCGGC
GCAGTTCTGGGGTCTCCACAGCTGAGGCAGGTTGGTCAGATCATTAGGGTTCCTGCTCGGATGGCGGCGACGCT
GATCCTGGAGCCTGCGGGCCGCTGCTGCTGGGACGAACCGGTGCGAATCGCCGTGCGCGGCTAGCCCCGGAGCA
GCCGGTCACGCTGCGCGCGTCCCTGCGCGACGAGAAGGGCGCGCTTTTCCAGGCCACGCGCGCTACCGCGCCGA
CACTCTTGGCGAGCTGGACCTGGAGCGCGCGCCGCGCTGGGCGGCAGCTTCGCGGGGCTTGAGCCCATGGGGCT
GCTCTGGGCCTTGGAGCCCCGAGAAACCTTTGGTGGGCTGGTGAAGCGCGACGTGCGAACGCCCTTGGCCGTGGA
GCTGGAGGTGCTGGATGGCCACGACCCGACCCCGGGCGGCTGCTGTGCCAGACGCGGCACGAGCGCTACTTCCT
CCCGCCCCGGGTGCGGCGCGAGCCGGTGCCTGGGCGGGTGCAGGCACGCTCTTCCTGCCGCCAGAACCTGG
GCCCTTTCTGGGATTGTGGACATGTTGGAACCTGGAGGTGGCCTGCTGGAGTATCGGGCTAGTCTGCTGGCTGG
GAAGGGTTTTGCTGTGATGGCTCTGGCTTATTATAACTATGAAGACCTCCCCAAGACCATGGAGACGCTCCATCT
GGAGTACTTTGAAGAAGCCATGAACACTTTGCTCAGTCATCCCGAGGTAAAAGGTCCAGGAGTTGGGCTGCTTGG
AATTTCCAAAGGGGGTGAGCTCTGCCTTTCCATGGCCTCTTTCTGAAGGGCATCACGGCTGCTGTGTCATCAA
CGGCTCTGTGGCCAATGTTGGGGGAACCTTACGCTACAAGGGCGAGACCCTGCCCCCTGTGGGCGTCAACAGAAA
TCGCATCAAGGTGACCAAAGATGGCTATGCAGACATTGTGGATGTCTGAACAGCCCTTTGGAAGGACCTGACCA
GAAGAGCTTCATTCTGTGGAAGGGCAGAGAGCACCTTCTGTTCCTGGTAGGTCAGGATGACCACAACCTGGAA
GAGTGAGTTCTATGCTAATGAGGCCTGTAAACGCTTGCAGGCCCATGGGAGGAGAAAGCCCCAGATCATCTGTTA
CCCAGAGACAGGGCACTATATTGAGCCTCCTTACTTCCCCCTGTGTCGGGCTTCCCTGCATGCCTTGGTGGGCAG
TCCTATTATCTGGGGAGGGGAGCCCAGGGCTCATGTCATGGCTCAGGTGGATGCTTGGAACAACCTCCAGACTTT
CTTCACAAACACTTGGGTGGCCACGAGGGGACAATCCCATCAAAAGTGTAAATTTTATTTGATCATGTGGCCTC
TCTGTTGCTAATCTCTCCTGGAACATCTGCCACATTTAGTGTGTGTATGTGTATTTCATTTCTTTGTTTTTAATA
ACTAAAGTTTTTTCCCCTCATTATTAATAATGAATTTACCAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 640

MSNKLLSPHPHSVLRSEFKMASSPAVLRASRLYQWSLKSSAQFLGSPQLRQVGQIIRVPARMAATLILEPAGRC
CWDEPVRIAVRGLAPEQPVTLRASLRDEKGALFQAHARYRADTLGELDLERAPALGGSFAGLEPMGLLWALEPEK
PLVRLVKRDVRTPLAVELEVLDGHDPDPGRLLCQTRHERYFLPPGVRREPVRVGRVRGTLFLPPEPGPFPGIVDM
FGTGGGLLEYRASLLAGKGFVAVMALAYYNYEDLPKTMETLHLEYFEEAMNYLLSHPEVKGPVGVLGISKGGELC
LSMASFLKGITAAVINGSVANVGGLTRYKGETLPPVGVNRNRIKVTGDYADIVDLNSPLEGPDQKSFIIVER
AESTFLFLVGQDDHNWKSEFYANEACKRLQAHGRRKPQIICYPETGHYIEPPYFPLCRASLHALVGSPIIWGGEF
RAHVMAQVDAWKQLQTFFHKHLGGHEGTIPSKV

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FIGURE 641

TCCTGGGGCCCAGCGCGGGTGGCTGCCGCGGCCCCCTCGGGCTGCGTGGGGAGGGGGCTTCCGCCCCCTGTTGTCAT
TGCTCCTGCAGCCTTTTCGCTGGGACTGCGCGACACCGCCCCCGACCGGGTGCCCGCTGTGTGCCAGGCCGGGT
GCTGGGCACGGTCCCGCGAGTGCCCTATAAGGACTGCCAGGCAATAATGAAGGTTCTTTTACTGAAGGATGCGAA
GGAAGATGACTGTGGCCAGGATCCGTATATCAGGGAATTAGGATTATATGGACTTGAAGCCACTTTGATCCCTGT
TTTATCGTTTGAGTTTTTGTCTCTTCCAGTTTCTCTGAGAAGCTTCTCATCCTGAAGATTACGGGGGACTCAT
TTTTACCAGCCCCAGAGCAGTGGAAGCAGCAGAGTTATGTTTGGAGCAAAACAATAAACTGAAGTCTGGGAAAG
GTCTCTGAAAGAAAAATGGAATGCCAAGTCAGTGTATGTGGTTGGAAATGCTACTGCTTCTCTAGTGAGTAAAT
TGGCCTGGATACAGAAGGAGAAACCTGTGGAAATGCAGAAAAGCTTGCAGAATATATTTGTTCCAGGGAGTCCTC
AGCACTGCCTCTTCTATTTCCCTGTGGAAACCTCAAAAGAGAAATCCTGCCAAAAGCGCTCAAGGACAAAGGGAT
TGCCATGGAAAGCATAACTGTGTATCAGACAGTTGCACACCCAGGAATCCAAGGGAACCTGAACAGCTACTATTC
CCAGCAGGGGGTTCCAGCCAGCATCACATTTTTTAGTCCCTCTGGCCTCACATACAGTCTCAAGCACATTCAGGA
GTTATCTGGTGACAATATCGATCAAATTAAGTTTGCAGCCATCGGCCCCACTACGGCTCGCGCGCTGGCCGCCCCA
GGGCCTTCCTGTAAAGCTGCACTGCAGAGAGCCCCACGCCACAAGCCCTGGCCACTGGCATCAGGAAGGCTCTCCA
GCCCCATGGCTGCTGCTGAGTGAGTCAGCCACCTAGCGCTGGCCCCATGCAGCCTCCCTGGGCTGGGCTGGCTCTGGAT
GGAGCCAGGCATCGGCAAGGGCTCTCGGGAGCTGCTGCCGTCAGACTCCTGCCTCAAGCCTGAGTGGAAGCACCT
GAGGACCGGGGATCGGGACCTGACCTGGGGCTGGCCTCAGGCCCCACGTGCACGTGACTGCCCTCTGTGGAAGCCA
GCTTAAACCCTAGCCCTGTGAGAGCTTCTGTGCCAGCAGGAAGGAAGTCAAATAAACCACACTGACTACCTGT
GCTT

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FIGURE 642

MKVLLLLKDAKEDDCGQDPYIRELGlyGLEATLIPVLSFEFLSLPSFSEKLSHPEDYGGGLIFTSPRAVEAAELCLE
QNNKTEVWERSLKEKWNKSVYVVG NATASLVSKI GLDTEGETCGNAEKLA EYICSRESSALPLLFP CGNLKREI
LPKALKDKGIAMESITVYQTV AHPGIQGNLNSYYSQQGV PASITFFSPSGLTYS LKHIQELSGDNIDQIKFAAIG
PTTARALAAQGLFVSCTAESPTPQALATGIRKALQPHGCC

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FIGURE 643

CCCAGAAATTCTACCCAAGCTCCCTCAGCACCATGTACCGAGCACTTCGGCTCCTCGCGCGCTCGCGTCCCCCTCG
TGCGGGCTCCAGCCGAGCCTTAGCTTCGGCTCCCGGCTTGGGTGGCGCGGCCGTGCCCTCGTTTTGGCCTCCGA
ACGCGGCTCGAATGGCAAGCCAAAATTCCTTCCGGATAGAATATGATACCTTTGGTGAAGTAAAGGTGCCAAATG
ATAAGTATTATGGCGCCCAGACCGTGAGATCTACGATGAACCTTAAGATTGGAGGTGTGACAGAACGCATGCCAA
CCCCAGTTATTAAAGCTTTTGGCATCTTGAAGCGAGCGGCCGCTGAAGTAAACCAGGATTATGGTCTTGATCCAA
AGATTGCTAATGCAATAATGAAGGCAGCAGATGAGGTAGCTGAAGGTAAATTAAATGATCATTTCCTCTCGTGG
TATGGCAGACTGGATCAGGAACCTCAGACAAATATGAATGTAAATGAAGTCATTAGCAATAGAGCAATTGAAATGT
TAGGAGGTGAAGTTGGCAGCAAGATACCTGTGCATCCCAACGATCATGTTAATAAAAGCCAGAGCTCAAATGATA
CTTTTCCCACAGCAATGCACATTGCTGCTGCAATAGAAGTTCATGAAGTACTGTTACCAGGACTACAGAAGTTAC
ATGATGCTCTTGATGCAAAATCCAAAGAGTTTGCACAGATCATCAAGATTGGACGTACTCATACTCAGGATGCTG
TTCCACTTACTCTTGGGCAGGAATTTAGTGGTTATGTTCAACAAGTAAATATGCAATGACAAGAATAAAAGCTG
CCATGCCAAGAATCTATGAGCTCGCAGCTGGAGGCACTGCTGTTGGTACAGGTTTAAATACTAGAATTGGCTTTG
CAGAAAAGGTTGCTGCAAAAGTGGCTGCACTTACAGGCTTGCCTTTTGTCACTGCTCCGAATAAAATTTGAAGCTC
TGGCTGCTCATGACGCTCTGGTTGAGCTCAGTGGAGCCATGAACACTACTGCCTGCAGTCTGATGAAGATAGCAA
ATGATATTTCGATTTTTTGGGTTCTGGTCCTCGGTCAGGTCGTTGGGAGAATTGATCTTGCCTGAAAATGAACCAGGAA
GCAGTATCATGCCAGGCAAGGTGAACCCTACTCAGTGTGAAGCAATGACCATGGTTGCAGCCCAAGTCATGGGGA
ACCATGTTGCTGTCAGTGTGCGAGGCAGCAATGGACATTTTGAGTTGAATGTTTTCAAGCCAATGATGATTAAAA
ATGTGTTACACTCAGCCAGGCTGCTGGGGATGCTTCAGTTTCCTTTACAGAAAACCTGCGTGGTGGGAATCCAGG
CCAATACAGAAAGGATCAACAAGCTGATGAATGAGTCTCTAATGTTGGTGACAGCTCTCAATCCTCATATAGGGT
ATGACAAGGCAGCAAAGATTGCTAAGACAGCACACAAAAATGGATCAACCTTAAAGGAACTGCTATCGAACTTG
GCTATCTCACAGCAGAGCAGTTTGACGAATGGGTAAAACCTAAGGACATGCTGGGTCCAAAGTGAATTACATAAA
TTTATAATGAAAATAAACATGTATAAAATTTAAAAAACAGACTCCCATTTCTTAAAAACGGATAAGTTTGAAAG
GAAACTGCTATTGAACCTAAGCATCTCTAGCAGAGCAATTTGATCAGTATATAAAACCCTAGGATGTGCTAGGTC
TAAGATGGATTAAACAAGTATAAAATAAAATACATTTATAAAATAAAAGGAAAACAGACTTAAAA

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FIGURE 644

MYRALRLLARSRLVRAPAAALASAPGLGGAAVPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYYGAQTVRS
TMNFKIGGVTERMPTPVIKAFGILKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDFPLVVWQTGSGTQTN
MNVNEVISNRAIEMLGGEELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEF
AQIIKIGRTHTQDAVPLTLGQEFSGYVQOVKYAMTRIKAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKVAAL
TGLPFVVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPRSGLGELILPENEPGSSIMPGKVNPT
QCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMMIKNVLHSARLLGDASVSFTENCVVGIQANTERINKLMN
ESLMLVTALNPHIGYDKAAKIAKTAHKNGSTLKETAIELGYLTAEQFDEWVKPKDMLGPK

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FIGURE 645A

CGTCCACCGTGGAGTCTCTCCTTGCTTTGGGTCCACTGAGCCCCACACATTGTTGAGTGTCTGATTGTCTCCTTG
CCCTTACAGGACAGGAAAGCGAAATCTCTGTTCCCTTTGTAGGGACCTTTCTTTTGTAGGTGAAAGGGACAGAAAT
ATGATTCTGGCCTCCTTGATGGTGAATACAGGAACACTTTCAGATAAATTACAATAGAGAGGAGTCAGCTTATTT
AAACAACTGAGGTAAAGCCAGAGATTGCAGTTAACAGTGAAAAAATTTAAAGCAAGTACCTGGATGGATGCAAA
GCAGTGCCAGGAGACCCAACTTACGTGACAGAGATGATCATTGTCCTCATTTCATTATGTTTTGAGCACCAGCC
ATGTGCCAGGTCCAGAACTAGAAGAACTTGGGTGTAGGTGAGATCATAGGAACAGTCCCTGCCCCAGCTGAACA
TCAGGAAGCCAGACTGGGAGCACATGCCGTGGCTGACTAGGACTCCAGCAGGGACCTGGGGTTCCATCAGATCAG
TGTAAGCGATGGTTTCCCAAATGAGACCTCTCCAGAGATGGTTTCATTCCACCCCGCAATGGCCACCAGAAACAT
TGTGCTGACCAGAGGGCTTCACTGCCCCAAACCCCAAAATCACACTCCAGGATGAGAAACCTAAAAGTCTATCTT
GATGAGGCTTCATAGCTGGAACACCCCTCATGGATCCACAGGCTGCATTTGATGAAAGGAGACTCCAGGAAGT
CGAGCCATTCCAGGCAGACATGTAGCAAAAGCCCGAGCTGGGGTCCGCCCTCATGCAATAAAATAACACCTGTGCA
CATAAGAGAGGTGACAGGCAGGGCATCCCTGGGGACCTGGGCCTGTGGCACGTGAAGAAAACCCCAAGAGAGCAC
GAAGTCCCAATGCCATGACCAGATATTTCCGTGCCAGGCATGCTTCTGGGTCCCAGCAAAAAGACACACAAATCCG
TGTCTTGGGGACCCACAGTCTAGTGACCTAGGGCTGGCCGGGTGCGACGCTTCTTTTCAAGGGCTCGAAAGCCT
CTGCATGGATGCAACTTTGGGGGAAAAGTAACCCCTAACCCCTCTGCTTCTCTCATCCCTCCCTCTTCTGTGTATAT
GTCTGTCTCTTTCTCTCTGTGTGTGCCCTTCCCCACTCCCATCCCATTCTTTTTTTTATTTATTTATTTTGGT
GGTGTGTGGCTCGGTTTTCTGTTGGTCCCTCGTGTGGCCCTCCCTGCTGCAGAACTCGTCCAGCTCGGCCTCC
TCCGAAGCCTCGGAACCTGCCAGTCAGTGAGCGAGTGACGCTCCCCACCTCTGTCTAGCTCGGGCTCCACCATG
GGTGCTGGGTGTCCACAGAGAAGGTGACCGCCGGGTGGCAGCCACAGCGGGCCCACTCTCCCTGGTCCCCCTG
CCTGCTGTCTAGACAGCCCTCACAGCCGCGGCAACCTGGAAGCTCAGAATCGACACCAAGAGTGGGGCTCCTCTT
GGGGACAGAGGTGGGACAAGGCTGAGAGCATTTTCTAGAATGAGTGCCTGGCTGCTGGACAATGACCACATGGT
TGTCTCAAGGGAGAGGAAGGGGTATGGGGAATTTGGAGGTGTGAAGGCTTTCTCCAGACCAGGTGTTGCGTGCC
TGTCCATCCTCCTCCTCCTTCCCGAGCCACCCACCAGACCGTTGGATGAGCCATGTCACTGTGTCTAGAGGCTG
TGTGCTTTTCCGCTTTTTTAGTTTGCACCCCCACCCCTTGCCTTGATTGAGAATGTGCTCCTGAGCAATGCGAC
GATTTTGGAAACCTAGAATGAACAGATTTCATTTGAAGATGCTTTGGAATTTTTAAATTTGCATAATGAAATGAGC
AAATCACTATCACCATTAAATGAGGCTTCATTAGTTACATTATCAAAAACCATTTGACAAGGCCACAAATTGAGGG
CACTGATCAATTTCCAACTTCTAAAACGTAGGTCAAACATAGATGCTTATTTGCTGTCAAACCTCATGTGCATT
TTTGACCCCCGGCTCTTTTCTCTTGATCACAGATCATCCGTGAGCAGCAGAGCCCCAATGTTTGTGTTTTATTTAT
AAATATTCAGGTTTTCCCTCCTTGAATGTCAATGCCATTTTGTATCTCCGCACTCATCTGTTATATTAATTTT
TTTTCTTTCCCCCCCCCTTTTTTTGTTTGTGTTCCAGTTGTCTAACGGGTTTTCTCACTATAGTTTATCAAGTGAG
TCCCACGTGGGGCCACGGGTGCAGGCCTTTTCCCTCATTGCCTGCCTGCCCTCCCGCTGCTCCCTCGGGTCACC
TCTGTCCACCTTCCAGACTACGCTCATTATTACACCATTTGGGCCCCGGCATGTTTCCCGTCATCTCAGATCCCTAGC
TGGAAGGACTGGGCTAAGCCTGGGCCCTATGACCAGCCTCTGGTGAACACCCTGCAGCGCCGCAAGAGAAAGCGA
GAACCGGACCCCAACGGGGGAGGACCCACTACCGCCAGCGGCCACCTGCAGCAGCTGAGGAGGCTCAGAGACCA
CGGAGCATGACTGTATCGGCTGCCACCAGGCCTGGTGAGGAGATGGAGGCTTGTGAGGAGCTGGCCCTGGCCCTG
TCTCGGGGCTGTCAGCTGGACACCCAGAGGAGCAGCCGGGACTCGCTTCAGTGCTCCAGCGGCTACAGCACCCAG
ACAACCACCCCTGCTGCTCTGAGGACACCATCCCTTCCCAAGTTTCAGATTATGATTATTTCTCTGTAAGTGGT
GACCAGGAGGCAGATCAGCAGGAGTTCGACAAGTCCCTCCACCATTTCCAAGAAACAGCGACATCAGCCAGTCTTAC
CGACGGATGTTCCAAGCCAAGCGTCCAGCCTCAACTGCTGGCTCCCCACCACCTGGGACCTGCTATGCTCACT
CCAGGGGTGCAACTATCCGACGGACCCCTTCCACCAAGCCTTCTGTCCGCCGGGAACCATTTGGAGCTGGTCCC
ATCCCCATCAAGACACCCGTGATCCCTGTCAAGACCCCAACCGTCCAGACCTCCAGGGGTGTTGCCAGCCCT
CCAGATGGGCCAGAAGAGCGGGGGGAGCACAGCCCTGAGTCGCCATCTGTGGGTGAGGGCCCCCAAGGTGTCACC
AGCATGCCCTCCTCAATGTGGAGCGGCCAAGCTTCCGTTAACCTCCACTTCCAGGCCCCAAGCCCAGTATCCCT
GAGGAGCACAGACAGGCAATTCAGAAAGTGAAGCTGAAGACCAGGAACGGGAACCCCAAGTGCCACTGTCTCC
CCAGGCCAGATTCCAGAGAGTGACCCTGCAGACCTGAGCCCAAGGGATACTCCACAAGGAGAAGACATGCTGAAC
GCCATCCGAAGGGGCGTGAACTGAAGAAGACCACGACAAACGATCGCTCAGCCCTCGCTTTTTCTTAGGTTTAC
AAGAAATGCGCCGGTGGGGAATGAAGTGTTCATTAATAAAACCTAATTTGTCTTGATCCATTCCACTCTATAAT
AAAACAAAAGATTTTGTAGGCAACTCGGAATATAGCTCTTTTGAAAGTACTCGACACCTTTAGATAAGAATTAA

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FIGURE 645B

ACCAACCTATGTAAGTACATAATCTTGATCTTTTAATTTGTAAATATTGACAATTTTCTTTCTGCACATTTTAA
TCTTAGTTTCCCTTTTGATTTTTCTGAAGGTGCCAAATTCATTTAACTTTTTTACAAGTCTTTGTAAAATTTA
AATGCATAAAGGGGGTTGGGGCAGGGGAACACGAAGTAGTTAATTTTAGAAAAGGATTTACTATACTTCACTCT
TCTTTTTTTTTCCCCACAAGCTTTTGTAGATGCATTGTAGTAGTCTAGCTTAGAAGCAAATGCAAGTTATTTAA
TGTACAAACTAAATGGGTAAGAGGTAAAATCTTCATTTAAATATACTATGTTCTGGATGAAAAGAGCAGGAGTAA
CAATTGATGAGCAATATTCAGAGTGAAGTAAATCTGGAAATGGTAGACTGTGTTGGGATTGGGGGGAGGGCCATG
GGAGGGGTACATCGTCAACATAGCCGATCCTGTTACATTTAAGAGTAGCCTCGTAGGTTGAATTTCTTCTGGTAG
CTTCATGGTAAATGCATCCGAATAAGCCATACTGGATTGCAGTGTGTTGTTCTGTAGGGTGTGTTAAGGACTTGAC
TTCCTTTCTCCCATGATTCTCTGGACTGCACACAGCACCCACAACCAGCCCCATGCATGCTGCTGCCTCTGGGC
AGTCGTAGAACTCTCCACTTCAGTTTCTCGTTGATTGTACTCACCTTTATGGAATCCAAATACATCCAAAAGGGT
AAGGCAGTTTTTAAAAATGTGAAAACATTTAAAAATGATAATAGCAGGGAATTCTTAGATTATAGTAAATGCCTTT
TACTTAACTGTGCCAGCAGGCTGGGTGCGTTAAAAAGCCCCAAGTATTTTGAAAAAACTCGAACAGATTTGACAA
GGGTAGCCAGCTTGGAGTCTAGCAACTTGCCAATGTGTTTACCAATCTGGGGGCTTGTTTTTCTTTCTTTCTTTC
AAATAAATGGCAGTTAACTGGCTTTACAGTAAACATTGAAGAGAGGAGGATTTGTTTATTGTCACTGGGAATCTG
ACCACTATACTGTCTTTTTTTTTGTATTCTGGGTAATGTTTTTTGGAAAAGATTTGTCTTTTCTAAGTGGAAGTTA
AATTTGTTATACTGCCATCCCTAAAGCCAACAGAGATTTGTAGATTTAAAGGGATCACATTTGAAGACAATAG
TGTTTAAGAAAGCAAGCAAGTCCCTTAGCAGTCAGGTCATAACAGGGGCACATTTCTGACCGAACCCCTCTCAAGGC
AGAGGAGGAGTTTGGTGGGTTTCATACACCTGCAGATTCTGTTGGCTCTAACCTCAATTACCTAATCTTATG
CTTTAACACATAACTGCATTGGATGTGAGAGTAACGTACCGTATGGTCATTGTTCTATATATTAACATTGAACAC
TGCTGCGATTGCTCAAGGACATTTTATGTTACGGCTTTAAAGCAAAGGCATGATTATTAGAACTATTTAAGCTT
TTTTCTTTGAAAAACAAGCTTCTTTTACAGAATATAAACAACAGTAGTGCCTGTGGTTTAGCCCACCAATCTTGA
TGACTAAAAGTAGCTGATGCATTGTGCATATGATGCTTGAGATGGTTTTTGCAAAGCAGAAATCGCTGCAAGGT
AATCACAATAGATAAAAGTGGTATTTTAAACCTTTGAAATAAATGGATGTAAGTGTACCTTGGTACAGCTTTTCA
CTTGTTTAGTTTTTAAACGTTAGTATAATCTGAATAAATAAATGTTGCCAAATTCAATGTAGAAAGAATGTGAC
AACACACCTTGGGTAGTTCTGCTTGTGTTTTTGCATATTGTAAAAGCAGTGTACAGCTAAAAAGAAAGAAATCG
TTTCTAACAGTAAATTATTGTGCTTTAGTTGCTAGTTTGTACTGAGAGTTGACCTCTCCCTGTGCAGTTTTTTGT
TCTAAACTTGTATAAATAACAATTGTGTAATGTGTCTCCCTCCTACATTGTAACAATTGCTTCAGCCTACGTTAT
AAATAAAGAACCCTAGATT

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FIGURE 646

MFPSSQIPSWKDWAKPGPYDQPLVNTLQRRKEKREPDNNGGGFTTASGPPAAAEAAQRPRSM TVSAATRPGEEME
ACEELALALSRGLQLDTQRSSRDSLQCSSGYSTQTTTPCCSEDTIPSQVSDYDYFSVSGDQEQEFDKSSTIP
RNSDISQSYRRMFQAKRPASTAGLPTTLGPAMVTPGVATIRRTIPSTKPSVRRGTIGAGPIPIKTPVIPVKTP TVP
DLPGVLPAPPDGPEERGEHSPESPSVGEGPQGVTSMPSSMWSGQASVNPPLPGPKPSIPEEHRQAIPESAEDE
REPPSATVSPGQIPESDPADLSPRDT PQGEDMLNAIRRGVKKLKKTTTNDRSAPRFS

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FIGURE 647

CCGATTCTGGCTTTTGCAAGGCTGTGGTTCGGTGGTTCATCAGTGTCTTGACCCAGGTCCAGCGAGCCTTTTCCC
TGGTGTTCGAGCTGTTGTTGTACCGCCGCCGTCGCCGCCGTCGCCGCCGTCGCTCTGCGGGGTCATGGTGTGCTTCC
GCCTCTTCCCGTTCCGGGCTCAGGGCTCGTTCTGGTCTGCCTAGTCCTGGGAGCTGTGCGGTCTTATGCATTGG
AACTTAATTTGACAGATTAGAAAATGCCACTTGCCTTTATGCAAAATGGCAGATGAATTTACAGTACGCTATG
AAACTACAAATAAACTTATAAACTGTAACCATTTAGACCATGGCACTGTGACATATAATGGAAGCATTGTG
GGGATGATCAGAATGGTCCCAAATAGCAGTGCAGTTCGGACCTGGCTTTTCTGGATTGCGAATTTTACCAAGG
CAGCATCTACTTATTCAATTGACAGCGTCTCATTTTCTTACAACACTGGTGATAACACAACATTTCTGATGCTG
AAGATAAAGGAATTCTTACTGTTGATGAACCTTTGGCCATCAGAATTCATTGAATGACCTTTTATAGATGCAATA
GTTTATCAACTTTGGAAAAGAATGATGTTGTCCAACACTACTGGGATGTTCTTGTACAAGCTTTTGTCCAAAATG
GCACAGTGAGCACAAATGAGTTTCTGTGTGATAAAGACAAAACCTTCAACAGTGGCACCCACCATAACACCCACTG
TGCCATCTCCTACTACAACACCTACTCCAAAGGAAAAACCAGAAGCTGGAACCTATTAGTTAATAATGGCAATG
ATACTTGTCTGCTGGCTACCATGGGGCTGCAGCTGAACATCACTCAGGATAAGGTTGCTTCAGTTATTAACATCA
ACCCAATACAACCTCACTCCACAGGCAGCTGCCGTTCTCACACTGCTCTACTTAGACTCAATAGCAGCACCATTA
AGTATCTAGACTTTGTCTTTGCTGTGAAAAATGAAAAACCGATTTTATCTGAAGGAAGTGAACATCAGCATGTATT
TGGTTAATGGCTCCGTTTTTCAGCATTGCAATAACAATCTCAGCTACTGGGATGCCCCCTGGGAAGTTCTTATA
TGTGCAACAAAGAGCAGACTGTTTCAGTGTCTGGAGCATTTCAGATAAATACCTTTGATCTAAGGGTTCAGCCTT
TCAATGTGACACAAGGAAAGTATTCTACAGCTCAAGACTGCAGTGCAGATGACGACAACCTTCTTGTGCCCATAG
CGGTGGGAGCTGCCTTGGCAGGAGTACTTATTCTAGTGTGCTGGCTTATTTTATTGGTCTCAAGCACCATCATG
CTGGATATGAGCAATTTTAGAATCTGCAACCTGATTGATTATATAAAAAATACATGCAATAACAAGATTTCTTA
CCTCTCAGTTGTTGAAACACTTTGCTTCTTAAAAATTGATATGTTGAACTTTAATTCTTTTATCAATCCCAGCAT
TTTGAGATCAGTCTTTATTAATAAAAACCTGTTCTCTTAAATCAGCTTAAATCCAAAGTGTCAATTTACTGGTC
CTGGAGACAACTTGTTCAAAGAACATCAACGTGCAATGTTTAAAGGTCTATCTTAAGAAGCCCTGGCCAAATT
TTGATCCTAACCTTGAAGTATGCCTTGAACCTATTAAACATGGCCATTATAAGAATAAAATATGTAGTTGTGTCTT
AATGGAATTAATAAATGTCAATTTCACTACTGGTGTCTGTTTCAATGTATAAGGACTATAGTGATTTAAACTCA
TCAATGTGCCTTTGCATAAAGTTGATTAAATAAATATTGATGTGGTATAAATGCCCATCAGATATGCT

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FIGURE 648

MVCFRLFPVPGSGLVLVCLVLGAVRSYALELNLTDSENATCLYAKWQMFTVRYETTNKTYKTVTISDHGTVTYN
GSICGDDQNGPKIAVQFGPGFSWIANFTKAASTYSIDSVFSYNTGDNTTFPDAEDKGILTVDELLAIRIPLNDL
FRCNSLSTLEKNDVVQHYWDVLVQAFVQNGTVSTNEFLCDKDKTSTVAPTIHTTVPSPTTTPKEKPEAGTYSV
NNGNDTCLLATMGLQLNITQDKVASVININPNTTHSTGSCRSHALLRLNSSTIKYLDVFVAVKNENRFYLYKEVN
ISMYLVNGSVFSIANNNLSYWDAPLGSSYMCNKEQTVSVSGAFQINTFDLRVQPFNVTQGKYSTAQECSLDDDTI
LIP IIVGAGLSGLIIVIVIAAYVIGRRKSYAGYQTL

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FIGURE 649A

CCGCCGTCCCTGCGTCTTCGGTCTCTGCTCCCGGGACCCGGGCTCCGCCGCAGCCAGCCAGCATGTCGGGGATC
AAGAAGCAAAAGACGGAGAACCAGCAGAAATCCACCAATGTAGTCTATCAGGCCACCATGTGAGCAGGAATAAG
AGAGGGCAAGTGGTTGGAACAAGGGGTGGGTTCGAGGATGTACCGTGTGGCTAACAGGTCTCTCTGGTGTGGA
AAAACAACGATAAGTTTTGCCCTGGAGGAGTACCTTGTCTCCCATGCCATCCCTTGTTACTCCCTGGATGGGGAC
AATGTCCGTCATGGCCTTAACAGAAATCTCGGATTCTCTCCTGGGGACAGAGAGGAAAAATATCCGCCGGATTGCT
GAGGTGGCTAAGCTGTTTGCTGATGCTGGTCTGGTCTGCATTACCAGCTTTATTTCTCCATTCGCAAAGGATCGT
GAGAATGCCCCGAAAATACATGAATCAGCAGGGCTGCCATTCTTTGAAATATTTGTAGATGCACCTCTAAATATT
TGTGAAAGCAGAGACGTAAAAGGCCTCTATAAAAAGGCCAGAGCTGGGGAGATTAAAGGATTTACAGGTATTGAT
TCTGATTATGAGAAACCTGAAACTCCTGAGCGTGTGCTTAAAACCAATTTGTCCACAGTGAGTGACTGTGTCCAC
CAGGTAGTGGAACCTTCTGCAAGAGCAGAACATTGTACCCTATACTATAATCAAAGATATCCACGAACTCTTTGTG
CCGGAAAACAACTTGACCACGTCCGAGCTGAGGCTGAAACTCTCCCTTCATTATCAATTACTAAGCTGGATCTC
CAGTGGGTCCAGTTTTTGAGCGAAGGCTGGGCCACTCCCTCAAAGGTTTCATGCGGGAGAAGGAGTACTTACAG
GTTATGCACTTTGACACCCTGCTAGATGATGGCGTGATCAACATGAGCATCCCCATTGTACTGCCCGTCTCTGCA
GAGGATAAGACACGGCTGGAAGGGTGCAGCAAGTTTGTCTGGCACATGGTGGACGGAGGGTAGCTATCTTACGA
GACGCTGAATTTCTATGAACACAGAAAAGAGGAACGCTGTTCCCGTGTTGGGGGACAACATGTACAAAACACCCC
CATATCAAATGGTGATGGAAGTGGGGACTGGCTGGTTGGTGGAGACCTTCAGGTGCTGGAGAAAAATAAGATGG
AATGATGGGCTGGACCAATACCGTCTGACACCTCTGGAGCTCAAACAGAAATGTAAAGAAATGAATGCTGATGCG
GTGTTTGCAATTCAGTTGCGCAATCCTGTCCACAATGGCCATGCCCTGTTGATGCAGGACACTCGCCGCAGGCTC
CTAGAGAGGGGCTACAAGCACCCGGTCTCTACTACACCCCTCTGGGCGGCTGGACCAAGGATGACGATGTGCCT
CTAGACTGGCGGATGAAGCAGCACGCGGCTGTGCTCGAGGAAGGGGTCTGGATCCCAAGTCAACCATTGTTGCC
ATCTTTCCGTCTCCCATGTTATATGCTGGCCCCACAGAGGTCCAGTGGCACTGCAGGTCCCGGATGATTGCGGGT
GCCAATTTCTACATTGTGGGGAGGGACCCTGCAGGAATGCCCCATCCTGAAACCAAGAAGGATCTGTATGAACCC
ACTCATGGGGGCAAGGTCTTGAGCATGGCCCCCTGGCCTCACCTCTGTGGAAATCATTCCATTCCGAGTGGCTGCC
TACAACAAAGCCAAAAAAGCCATGGACTTCTATGATCTAGCAAGGCACAATGAGTTTGACTTCATCTCAGGAACT
CGAATGAGGAAGCTCGCCCGGAAGGAGAGAATCCCCCAGATGGCTTCATGGCCCCCAAAGCATGGAAGGTCCTG
ACAGATTATTACAGGTCCCTGGAGAAGAACTTAAGCCCTTTGGCTCCAGAGTTTCTTTCTGAAGTGCTCTTTGATTA
CCTTTTCTATTTTTATGATTAGATGCTTTGTATTAAATTGCTTCCTCAATGATGCATTTTAACTTTTATAATGAA
GTAAAGTTGTGTCTATAATTAATAAAAAAATATATATATATACACACACATATACATACAAAGTCAAACCTGAA
GACCAAATCTTAGCAGGTAAAAGCAATATTCTTATACATTTTATAATAAAATTAGCTCTATGTATTTTCTACTGC
ACCTGAGCAGGCAGGTCCCAGATTTCTTAAGGCTTTGTTTGACCATGTGTCTAGTTACTTGCTGAAAAGTGAATA
TATTTTCCAGCATGTCTTGACAACCTGTACTCTTCCAATGTCATTTATCAGTTGTAAAATATATCAGATTGTGTC
CTCTTCTGTACAATTGACAAAAAAAATTTTTTTTTCTCACTCTAAAAGAGGTGTGGCTCACATCAAGATTCTTC
CTGATATTTTACCTCATGCTGTACAAGCCTTAATGTGTAATCATATCTTACGTGTTGAAGACCTGACTGGAGAAA
CAAAATGTGCAATAACGTGAATTTTATCTTAGAGATCTGTGCAGCCTAGATTTTACCTCATGCTGTACAAAGCCT
TAATGTTGTAATCATATCTTACGTGTTGAGACCTGACTGGAGAAACAAATGTGCAATAACGTGAATTTTATCTT
AGAGATCTGTGCAGCCTATTTTCTGTACAAAAAGTTATATTGTCTAATAAGAGAAGTCTTAATGGCCTCTGTGAA
TAATGTAACCTCAGTTACACGGTGAATTTTAAATAGCATACAGTGATTTGATGAAAGGACGTCAAACAATGTGGCGA
TGTCGTGGAAAGTTATCTTTCCCGCTCTTTGCTGTGGTCATTGTGTCTTGCAAAAGGATGGCCCTGATGCAGCA
GCAGCGCCAGCTGTAATAAAAAATAATTCACACTATCAGACTAGCAAGGCACTAGAAGTGGAAAAGACCACAGAA
AACAAAGAATCCAACCCTTTTATCTTACAGGTGAACAAACTGTGATGATGCACATGTATGTGTTTTGTAAGCTGT
GAGCACCGTAACAAAATGTAAATTGCCATTATTAGGAAAGTGCTGGTGGCAGTGAAGAAGCACCCAGGCCACTT
GACTCCCAGTCTGGTGCCCTGTCTACACCAGACAACACAGGAGCTGGGTGAGATTCCCCTCAGCTGCTTAACAAA
GTTCCCTCGAACAGAAAGTGCTTACAAAGCTGCCTTCTCGGATACTGAAAGGTCGAGTTTTCTGAACTGCACTGAT
TTTATTGCAAGTTGAAAACCCAAAGCTATTCCAAAGATTTCAAGCTGTTCTGAGACATCTTCTGATGGCTTTACT
TCCTGAGAGGCAATGTTTTTACTTTATGCATAATTCATTGTTGCCAAGGAATAAAGTGAAGAAACAGCACCTTTT
TAATATATAGGTCTCTCTGGAAGAGACCTAAATTTAGAAAGAGAAAACCTGTGACAATTTTTCATATTCTCATTCTT
AAAAAACACTAATCTTAACTAACAAAAGTTCTTTTGAGAATAAGTTACACACAATGGCCACAGCAGTTTGTCTTT
AATAGTATAGTGCTTATACTCATGTAATCGGTTACTCACTACTGCCTTTAAAAAAAACCAGCATATTTATTGAAA

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FIGURE 649B

ACATGAGACAGGATTATAGTGCCCTTAACCGATATATTTTGTGACTTAAAAAATACATTTAAACTGCTCTTCTGC
TCTAGTACCATGCTTAGTGCAAATGATTATTTCTATGTACAACTGATGCTTGTTCTTATTTAATAAATTTATCA
GAGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 650

MSGIKKQKTENQQKSTNVVYQAHVSRNKRQVVGTRGGFRGCTVWLTGLSGAGKTTISFALEEYLVSHAIPCYS
LDGDNVRHGLNRNLGFSPGDREENIRRIAIEVAKLFADAGLVCITSFISPFADRENARKIHESAGLPFFEIFVDA
PLNICESRDVKGLYKKARAGEIKGFTGIDSDYEKPEPTEPERVLKTNLSTVSDCVHQVVELLQEQNIVPYTI IKDIH
ELFVPENKLDHVRAEAETLPSLSITKLDLQWVQVLSEGWATPLKGFMRKEYLQVMHFDTLDDGVINMSIPIVL
PVSAEDKTRLEGCSKFVLAHGRRVAILRDAEFYEHRKEERC SRVWGTTCTKHPHIKMVMESGDWLVGGLQVLE
KIRWNDGLDQYRLTPLELKQCKEMNADAVFAFQLRNPVHNGHALLMQDTRRLLERGYKHPVLLLHPLGGWTKD
DDVPLDWRMKQHAAVLEEGVLDPKSTIVAIFPSPMLYAGPTEVQWHCSRMIAGANFYIVGRDPAGMPHPETKKD
LYEPHGGKVL SMAPGLTSVEIIPFRVAAYNKAKKAMDFYDLARHNEFD FISGTRMRKLAREGENPPDGFMAPKA
WKVLT DYRSLEKN

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FIGURE 651

GGAGAGAGGACCTATTTCTACCTAAGGACATTCCCGGAAGGCAATGGGTTTCAAACAATATCCTGAAGAGACTCA
TCTCGGGGAACCTAAGCAGGTGGTAATCAGAGAACACAGAGCCCCCGGAAGAATTTTATGGCATTTCAGGCAAGCC
ACAGGCCAGCCTGGGGAAAAAGCAGGAAGAAAACTGGCAATACGAGGGCCCAACCCAAAAGTTATTCCTGAAGA
GAAACAACGTGTCAGCACCAGATGGGCCTTCAGACCCAGCATCTCCGCGAGCAGTGAGCAAAGCGGGGCACAGC
AGCCTCCCGGTTTACAGGTTGAAAGGATTGTTGACAAAAGGAAAAATAAAAAAGGGAAGACAGAGTATTTGGTTC
GGTGGAAGGCTATGACAGCGAGGACGACACTTGGGAGCCGGAACAGCACCTCGTGAAGTGTGAGGAATACATCC
ACGACTTCAACAGACGCCACACGGAGAAGCAGAAGGAGAGCACATTGACCAGAACAACAGGACCTCTCCCAACA
ATGCTAGGAAACAAATCTCCAGATCCACCAACAGCAACTTTTCTAAGACCTCTCCTAAGGCACTCGTGATTGGGA
AAGAÁCACGAATCCAAAAACAGCCAGCTGTTTGCTGCCAGCCAGAAGTTCAGGAAGAACACAGCTCCATCTCTCT
CCAGCCGGAAGAACATGGACCTAGCGAAGTCAGGTATCAAGATCCTCGTGCCTAAAAGCCCCGTTAAGAGCAGGA
CCGCAGTGAGCGGCTTTCAGAGCGAGAGCCCTGAGAACTGGACCCCGTCGAGCAGGGTCAGGAGGACACAGTGG
CACCCGAAGTGGCAGCGGAAAAGCCGGTCCGAGCTTTATTGGGCCCGGTGCCGAGAGGGCCAGGATGGGGAGCA
GGCCAGGATACACCCACTAGTGCCTCAGGTGCCCGGCCCTGTGACTGCAGCCATGGCCACAGGCTTAGCTGTTA
ACGGGAAAAGGTACATCTCCGTTTATGGATGCATTAACAGCCAATGGGACAACCAACATACAGACATCTGTTACAG
GAGTGACTGCCAGCAAAAGGAAATTTATTGACGACAGAAGAGACCAGCCTTTTGACAAGCGATTGCGTTTCAGCG
TGAGGCAAAACAGAAAGTGCCTACAGATACAGAGATATTGTGGTCAGGAAGCAGGATGGCTTCACCCACATCTTGT
TATCCACAAAAGTCCTCAGAGAATAACTCACTAAATCCAGAGGTAATGAGAGAAGTCCAGAGTGCTCTGAGCACGG
CCGCTGCCGATGACAGCAAGCTGGTACTGCTCAGCGCCGTTGGCAGCGTCTTCTGTTGTGGACTTGACTTTATTT
ATTTTATACGACGTCTGACAGATGACAGGAAAAGAGAAAAGCACTAAAATGGCAGAAGCTATCAGAACTTCGTGA
ATACTTTTCATTCAATTTAAGAAGCCATTATTGTAGCAGTCAATGGCCAGCCATTGGTCTAGGAGCATCTATAT
TGCTCTTTGCGATGTGGTTTGGGCTAATGAAAAGGCTTGGTTTCAAACACCCTATACCACCTTCGGACAGAGTC
CAGATGGCTGTTCTACCGTTATGTTTCCCAAGATAATGGGAGGAGCATCTGCAAACGAGATGCTGCTCAGTGGAC
GGAAGCTGACAGCGCAGGAGGCGTGTGGCAAGGGCCTGGTCTCCAGGTGTTTTGGCCCGGACGTTCACTCAGG
AAGTGATGGTTTCGATTAAGGAGCTTGCCTCGTGCAATCCAGTTGTGCTTGAGGAATCCAAAGCCCTCGTGCGCT
GCAACATGAAGATGGAGCTGGAGCAGGCCAACGAGAGGGAGTGTGAGGTGCTGAAGAAAATCTGGGGCTCGGCCC
AGGGGATGGACTCCATGTTAAAGTACTTGCAGAGGAAGATCGATGAGTCTGAGTGTGCGGGCTGCCCACTGGTGA
CACCGGGATCGGGCTGAGCAGGAGAACATCACCGGCTCCAGTTCCCCTGATCCATTCTCACAGCCTGAAACAAGC
TCACCCGTAGCTTACGCTTGGAAGCAGGACTGGGAACATCCACGCTATTTATTATCGAGGAGTTTTAAAGTACTG
TAACTTTAAAATAAAATACTACAAAGCTTCTTTGTCVAAACGTCATTATTTTATACTTATATACACGCAGGTGTA
AAAGTATAAAGGTGAGCACTAGACTGCTCTTAGAAGCTCTAATTTTTGTTTTCTTTGGCTAGTACTGTATAAAAA
ACAGAAATTGTGTTTTATTGGTTTTGGATGACAGAAAAGTCTGGAATAATGTTTGTTCCTCATTCTCTCCTTCT
AGAACACAGAATCTAAGGGGGTGTAGCCAGCCTCGCCTCCCTGCCCCACGTAGAGACACAGAGTGATGTGAGGC
GTTGGCTTTTTCTCCAAGAAGGTACAGATACCTCAGATTCGGGAAACTCAAAATCAAAGACTTAGCTTCTAGGA
TAAATACTTCTGATGAAAAATCCGCTGAGGAGCATACCCCAAACAGACATATGCTTAGGATTCATGCTGAGATA
TCAATTGGTTTCCCCTTCTTTTTAAATACGTCCAGTTCTTACCCAGTTAACATGAAGAAACCACTGTCTCTAGA
AGAAAGCTTGTTTTGCAGTATTAGTGAATCACTGAATAGCTTAAGTATGACTATCTAAGTTATAAGTTAGTCTTT
AGTGGGTTTTTAAATAGTTTTTCTGACCCTTCTGAAAAATAACTACATAAGTGCTTCTTGTTGCTGGGTGAGAAAT
ACTACTTTATAGACAGTTTTGGTTTTCTGTTTGAGATATGATTGATGATTTACCAAATAAAATATTTTTAT
GTTTATAAAGTGTAATTTTTAGGTTCACTTAGAATATATTTTATTTAATAAGTTAAATTCTTTTGGCACACTAT
TAAATGCAAAAACCTCCTTTCAAAAA

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FIGURE 652

MAFQASHRPAWGKSRKKNWQYEGPTQKLFLKRNNVSAPDGPSPDISASSEQSGAQQPPGLQVERIVDKRKNKKG
KTEYLVRWKGYDSEDDTWEPEQHLVNCEEYIHDFNRRHTEKQKESTLIRTNRTSPNNARKQISRSTNSNFSKTSP
KALVIGKDHEKNSQLFAASQKFRKNTAPSLSSRKNMDLAKSGIKILVPKSPVKSRRTAVDGFQSESPEKLDPVEQ
GQEDTVAPEVAAEKPVGALLGPGAERARMGSRPRIHPLVPQVPGPVTAAMATGLAVNGKGTSPFMDALTANGTTN
IQTSVTGVTASKRKFIDRRDQPFDKRLRF SVRQTESAYRYRDIVVRKQDGFTHILLSTKSENNSLNPEVMREV
QSALSTAAADDSKLVLLSAVGSVFCGLDFIYFIRRLTDDRKRESTKMAEAI RN FVNTFIQFKKPIIVAVNGPAI
GLGASILPLCDVVWAN EKAWFQTPYTTFGQSPDGCSTVMFPKIMGGASANEMLLSGRKLTAQEACGKGLVSQVFW
PGTFTQEV MVRIKELASCNPVVLEESKALVRCNMKMELEQANERECEVLKKIWGSAQGMD SMLKYLQRKIDEF

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FIGURE 653

AGGATGATCAAGCTGTTCTCGCTGAAGCAGCAGAAGAAGGAGGAGGAGTCGGCGGGCGGCACCAAGGGCAGCAGC
AAGAAGGCGTCGGCGGCGCAGCTGCGGATCCAGAAGGACATAAACGAGCTGAACCTGCCCCAAGACGTGTGATATC
AGCTTCTCAGATCCAGACGACCTCCTCAACTTCAAGCTGGTCATCTGTCCTGATGAGGGCTTCTACAAGAGTGGG
AAGTTTGTGTTCAAGTTTTAAGGTGGGCCAGGGTTACCCGCATGATCCCCCAAGGTGAAGTGTGAGACAATGGTC
TATCACCCCAACATTGACCTCGAGGGCAACGTCTGCCTCAACATCCTCAGAGAGGACTGGAAGCCAGTCCTTACG
ATAAACTCCATAATTTATGGCCTGCAGTATCTCTTCTTGGAGCCCAACCCGAGGACCCACTGAACAAGGAGGCC
GCAGAGGTCCCTGCAGAACAACCGGCGGCTGTTTGAGCAGAACGTGCAGCGCTCCATGCGGGGTGGCTACATCGGC
TCCACCTACTTTGAGCGCTGCCTGAAATAGGGTTGGCGCATACCCACCCGCCGCCACGGCCACAAGCCCTGGCAT
CCCCTGCAAATATTTATTGGGGGCCATGGGTAGGGGTTTGGGGGGCGGCCGGTGGGGGAATCCCCTGCCTTGGCC
TTGCCTCCCCCTTCCTGCCACGTGCCCTAGTTATTTTTTTTTTAAACACCAGGCTAACTAAAGGGGAATGTTACTG
C

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FIGURE 654

MIKLFSLKQQKKEEESAGGTKGSSKKASAAQLRIQKDINELNLPKTCDISFSDPDDLNFKLVICPDEGFYKSGK
FVFSFKVGQGYPHDPPKVKCETMVYHPNIDLEGNVCLNILREDWKPVLINSIIYGLQYLFLEPNPEDPLNKEAA
EVLQNNRRLFEQNVQRSMRGGYIGSTYFERCLK

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FIGURE 655A

GGAGCCCTGGGCGCGGGGGCGGCGTGTCTAGGTGGTTGCGGAGCTGGTAAGAATCATATTCTAAGAACTCAGCCAC
TCAGGTATCCACCATGCTGCTGGGTCTGAACAGAAGATGTCTAGATGACAGTGTCTTCTGGAGATCATGGGGAGTC
TGCCAGTCTTGTTAACATCAACCCTGCCTATAGTAATCCCTCTCTTTACAGTCCCCTGGGGACTCAGAGGAGTA
CTTCGCCACTTACTTTAATGAGAAGATCTCCATTCTGAGGAGGAGTACTCTTGTCTTTAGCTTTTCGTAAACTCTG
GGCTTTACCCGACCAGGTTTTCTTATGAGCATTGCCTACCTGGATCCAGGAAATATTGAATCCGATTTGCAGTC
TGGAGCAGTGGCTGGATTTAAGTTGCTCTGGATCCTTCTGTTGGCCACCCTTGTGGGGCTGCTGCTCCAGCGGCT
TGCAGCTAGACTGGGAGTGGTTACTGGGCTGCATCTTGTCTGAAGTATGTCACCGTCAGTATCCCAAGGTCCCACG
AGTCATCTGTGGCTGATGGTGGAGTTGGCTATCATCGGCTCAGACATGCAAGAAGTCATTGGCTCAGCCATTGC
TATCAATCTTCTGTCTGTAGGAAGAATTCTCTGTGGGGTGGCGTTCTCATCACCATTGCAGATACTTTTGTATT
TCTCTTCTTGGACAAATATGGCTTGCAGGAAGCTAGAAGCATTTTTTTGGCTTTCTCATCACTATTATGGCCCTCAC
ATTTGGATATGAGTATGTTACAGTGAAACCCAGCCAGAGCCAGGTACTCAAGGGCATGTTTCGTACCATCTGTTC
AGGCTGTGCACTCCACAGATTGAACAGGCTGTGGGCATCGTGGGAGCTGTCTCATGCCACACAACATGTACCT
GCATTCTGCCTTAGTCAAGTCTAGACAGGTAAACCGGAACAATAAGCAGGAAGTTCGAGAAGCCAATAAGTACTT
TTTCATTGAATCCTGCATTGCATCTTTGTTTCTTTCATCATCAATGTCTTTGTTGTCTCAGTCTTTGCTGAAGC
ATTTTTTGGGAAAACCAACGAGCAGGTGGTTGAAGTCTGTACAAATACCAGCAGTCTCATGCTGGCCTCTTTCC
TAAAGATAACTCGACACTGGCTGTGGACATCTACAAAGGGGGTGTGTGTGCTGGGATGTTACTTTGGGCCTGCTGC
ACTCTACATTTGGGCAGTGGGGATCCTGGCTGCAGGACAGAGCTCCACCATGACAGGAACCTATTCTGGCCAGTT
TGTCTAGGAGGGATTCTGAACCTAAAGTGGTCACGCTTTGCCCGAGTGGTTCTGACTCGCTCTATTGCCATCAT
CCCCACTCTGCTTGTGTCTTCCAAGATGTAGAGCATCTAACAGGGATGAATGACTTTCTGAATGTTCTACA
GAGCTTACAGCTTCCCTTTGCTCTCATACCCATCTCACATTTACGAGCTTGGCGCCAGTAATGAGTGACTTTGC
CAATGGACTAGGCTGGCGGATTGCAGGAGGAATCTTGGTCCTTATCATCTGTTCCATCAATATGTACTTTGTAGT
GGTTTATGTCCGGGACCTAGGGCATGTGGCATTATATGTGGTGGCTGCTGTGGTCAGCGTGGCTTATCTGGGCTT
TGTGTTCTACTTGGGTTGGCAATGTTTGATTGCACTGGGCATGTCTTCTGACTGTGGGCATACGGTAAGCAT
CTCTAAAGGCCTGCTGACAGAAGAAGCCACCCGTGGCTACGTTAAATTAACACTGGATTAGTCTGTCTTCTGCAGG
TAGCCATCAGAGCCAGTGTGTTTCTATGGTTTACTGTGTGAACATAGCCAAAAGTATGTGCCGTTGCACAGACTG
TGTTTATGACTCAACCGTTGGTTGGAAAAGACTTTGTTTCATGTGTATTTGAAAGATGGAATTATTTTTTCTTC
CTGACCTAACCTTAGAAGTGGATTAGGGTGGGATCTTTGAAAAGCTGACATTTGCTGCTATCATTCCAACACTAA
ATTCTTAAGTAGTTGCCCCAAGGGCCAGCTCAGTTTATCTTCGGAGAGACAAGGATATGCATGATTCTTAACCAG
GCTATATGTTAAAAAAAATTGGAATATGCAATACATTTTTTATTATACAACTACAGAATGAGTATGCAAGTTT
TATTTATCAAAATGTAATGGATTTTTAAAGGCTGAGAAATTTTCTTATACCTACCTTTTCAGTTATTTTAATTA
TACCAAATTATCAACTAGAATAGCTTCATCCATATGAAATATAAAATGAAGAGACACCTAGCTCTATCAGGCTTA
GGATTCTTTGAACTTATTTCCACTTTAATTTCTCAGTGGAAGTTAAGAGGGGTGAGAAAACAAAGAAGGGGAAAA
ACTGACAACTAACAAAACCAGCACCATCGCTAGGTGGTGCTTACTAATTACCTTCTCAGGATTTTCTCAGAT
TGAAAAGCTTATGAGGATTTCTTGGGAGTCTTAATAACCTGCCTGTTAGTACAGAGCTTCTCTGATGATATTTAC
TCTTGAGCACATGTGGTTGTAAAACCTTAACCTTTCTTCTCCAGGAGGGTGGTGATAGAAACAGATGGTAGTATT
TATGAACTGATGTTCTCGTGAAATGTTGAGGGTGGGGAGAAAAGACTTTAAGGGAGGAGAGCCATCTATTTTGT
CCTAAAGCCACCTCTCAGCAGAATCGTCATGTTTTTCTGATGCACCGCTCTGCTTCATGCCCAAGATGACTTGCG
AGGCAATCTCAGGAGCTGTGGACTTAACCGTTGCAAAGCACACTGTCTTTCTCAGCGTTCTCTGCAAGTCAGTAG
GTGTTAGTATGGTTGCAAAGTTCAGTGTCTCAGCAAAGTTGAAGTGGGCTACCTCTCTACAGCTGTTTCCTCAGA
GGGAAAAATCTTGAGACCATGGTGGAGCTCTGGAGTCAGAGGAAATGGGTGTCTTCAGCACAAAGCTGCTGCTTT
TACTTCAGCCACTTCTGACATTTTACATACCGAGCCTGAGATTGTGTGATTATCTCAAATCAAATCACTTTGAT
GGAGATAAATAATCAAACTGTTTTATAGTCATTGATTTGGTGAGAACAGTAATGGAATGGTGTGAAGGACT
TCTCATTTTTTGGAGCTTTCTTCCAGAGTCTGGCTGATTGGTGTTCGCTGTTTCATCTGAGCCCCCAAAGCAT
ATTACTGATACTTGCACACAGTCAAAAGCGCAGACTGGATGGATGGTCTTTTATAAGGCATTTAAGGGTACACTA
CTGTGTTTCACTGACCATAACATTTTTCTTAGCCCCCTCAAGTAATATAGCACAGAGTTATGAATGACAATTTCCCT
AACCATTCTCTCATATCTGCCTCTTCCCTTACCATCGTAATTCTCCAACTGGTCATAAAGGCACTCTGTGA
AGATATTGGGGACTGACATCTTAAGCTCTCACCTGGCTGCAGTAGGAAAGGCCAACTGACGACAAAAAAAAT
TCTTTATAAAGATGATATGGTAACATGTATCTTTGCCCTGGGTCTGGGTGGGTCCAGTCAGTCTCAGATTTACAA

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FIGURE 655B

GCATTTAGGAGCCTAGGTAAAAGCTGCTAGTATTCTTTTAAAAGTTATATTTATGACTTGCAATGATAGAAAAC
CCTTCCAATTAAATGGCATTATATAATATTATGTGTGTACTTCACAGTGTTAAAAATACCCTCATACGTTATTGC
ATTTGATCTTCACAGAAAGTGCATTTTAACCAGTACTCTGGGTGCAATAAATAATATGTAGAAATTTAAGTCCTC
CAATTCCAGCATATCCAGTGAGTTTTGACAGTGTGTTTATGTGGAATGTTTAAGGATATACAATTGTACTTTATA
TAAATTGGTTCTTGTTCTTCTTAAATGTGACATGAAATAATTGTGCTGCTACATTATACTGGAAATTAACAGGGG
AAAAGGGAAGAGCTCTTGGCTCCCTTGAGGTTCTGCTAGTGGTGTTAGGAGTGGTTACAACCTGAGCTTTTAGTAA
CCATTTAACCGTATGTAACTTGGTTTCTAATTAAAAAAAATTTCTTTTCC

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FIGURE 656

MVLGPEQKMSDDSVSGDHGESASLGNINPAYSNP SLSQSPGDSEEFATYFNEKISIP EEEYS CF SFRKLWAF TG
PGFLMSIAYLDPGNIESDLQSGAVAGFKLLWILL L L AT LVGLLLQRLAARLG VVTGLHLAEVCHRQY PKVPRVILW
LMVELAIIGSDMQEVIGSAIAINLLSVGRIPLWGGVLIT IADTFVFLFLDKYGLRKLEAFFGFLITIMALTFGYE
YVTVKPSQSQVLKGMFVPSCSGCRTPQIEQAVGIVGAVIMPHNMYLHSALVKS RQVNRNNKQEVREANKYFFIES
CIALFVSFIINVFVSVFAEAF FGKTNEQVVEVCTNTSSPHAGLFPKDNSTLAVDIYKGGVVLGCYFGPAALYIW
AVGILAAGQSSTMTGTYSQGFM EGFNLKWSRFARVVLTRSAI IPTLLVAVFQDVEHLTGMNDFLNVLQSLQL
PFALIPILTFTSLRPVMSDFANGLGWRIAGGILVLIICSINMYFVVVYVRDLGHVALYVVA AVVSVA YLGFV FYL
GWQCLIALGMSFLDCGHTVSISKGLLTEEATRGYVK

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FIGURE 657

GCGAGGGTAGCCATGACGGCCTCCGTGCTGCGAAGTATCTCGCCAGCCCTGCGCCCGACTAGCGGGCTTCTGGGA
ACTTGGCAGACGCAGCTTAGAGAGACTCACCAGCGAGCGTCATTGTTGTCTTTCTGGGAACCTCATTCCCATGAGA
TCAGAACCTCTTCGAAAAAAGAAGAAGGTAGATCCTAAAAAAGACCAAGAAGCAAAGGAGCGCTTGAAAAGGAAG
ATCCGAAAACCTGGAAAAGGCTACTCAAGAGCTAATTCCTATTGAAGATTTTATTACCCCTCTAAAGTTCTTGGAT
AAAGCAAGAGAGCGGCCTCAGGTGGAGCTCACCTTTGAGGAGACTGAGAGGAGAGCTCTGCTTCTGAAGAAGTGG
TCCTTGTACAAGCAGCAAGAGCATAAGATGGAGAGGGACACCATCAGGGCTATGCTAGAAGCCCAGCAGGAAGCT
CTGGAGGAACCTGCAACTGGAATCCCCGAAGCTCCATGCTGAGGCCATCAAGCGGGATCCTAACCTGTTCCCTTT
GAGAAGGAAGGGCCACATTACACACCACCGATCCCTAACTACCAACCCCTGAAGGCAGGTACAATGACATCACC
AAGGTGTACACACAAGTGGAGTTTAAGAGATTAGAATTGCAGGCTGCTATCCTTAACATGCTGCCCCTGAGAGTAG
GAATGACCAGGGTTCAAGTCTGCTTTCCACAGAATCAGGCATGCTGTTAATAAATACTGGTTTAATCAAAAAAAA
AAAAA

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FIGURE 658

MTASVLRSSISPALRPTSGLLGTWQTQLRETHQRASLLSFWELIPMRSEPLRKKKKVDPKKDQEAKERLKRKIRKL
EKATQELIPIEDFITPLKFLDKARERPQVELTTEETERRALLKKWSLYKQQEHKMERDTIRAMLEAQQEAELEEL
QLESPKLHAEAIKRDPNLFPFKEGPHYTPPIPNYQPFEGRYNDITKVYTQVEFKR

[illegible]

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FIGURE 659B

AAATGGACTTCTCTGAAGCTGTGTTTAGTGAAATGAGCTCAAGTACATGAATGTTAGTTGTTATCACATACAGCA
AATTCCTTTTTTTTTCTTTTTCTATGAGCACACTCTGCTGCTTCTAAACTTTACATGCCTGATGGCACCTTACTC
CAGCAGCCTCCAGGTGCTTTCATTTTCACTTCCAGTCTAAGCCAGTGGCTCCTGCCACTGCCCTCCCATTTACCTA
GATGGCACCTCCTTTGGTGAAACCACGGCCAATGTTCCCTTAGCTGCACCAGGCCCGAAGCTGTTCCCATGCTTGA
GCTTCCATGGGGAGGATGCTGAGTGAGCAGTTTCCTACGCCGTGGATCTAGCAAGCCATGGAGACAGGTAGCATT
TGTAAGATGCTGCACAGGAGCAGCATTATCCCCAAAGATATTACAGGGTAGACACGTTTTAACTGAAATCAATCA
AGATAACTTTATTCAAAGAGCAGCCCGCTTTGTGTGACTAAAATGAAACAAGACAGTTGAATTGTGTGACTTGAA
GATTACCAATGATTTTGAGGCTTTTCTATAATAAAAAAGAGGTTCTAACCATTATTTGGGAACAAAGAGAGTTTTT
ATCTTTTTTTCAGATCAAAACCATTCTGTAAAATCTTTGTTGTTTAATTAAATGTGCCGTTATTTACCCCTGATGT
TATTTATGACTATGTGCCGATTCTGCTTGGGCTGTTTGCTGTTGGCTGGTAATAATATATTTGATTTAAATGCT
GTTGACTGTGCTATTAAGTCTGCGTCAGTAAACTCCAAAGATCTTTTGTGTTTGGCTTTAGTATCATATGTGC
TTTTTCTGTATCCTGAGCGCTCTATATGATCATGTTAATTTAAAGCTTTATACACATTGTTGTTTTTGCTGGTCT
CATCTTTGGTAATATGCTATACCCCACTGCTGCCCGACACTGCCCTTTAGCTGCAGAGCTGGATTAGCTGTTGAC
CATTTGATGCTGTTGTCTGTCTGGCAGGGACTGAATGACCTGATGTCAGATTTAGATTCTTCCTGGGGATTACAC
AGCTATGAATGTATTTGCTTCTAAAACCTCCCAAAGTGAATCTAATCTTAAACTACAAGTTGTAAGTATTCTGA
AATTGGGAAACATTTATTTTAAATGCAATCAGGTAGTGTGCTTTTTTACAGCATAATAAATATATGTTTCAAAA

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FIGURE 660

MMRLRGSGMLRDLLLLRSPAGVSATLRRAPLVTLCCRFRGGGRPAAGPAAAAARLHPWWGGGGWPAEPLARGLSSS
PSEILQELGKGSTHPQPGVSPPAAPAAPGPKDGPGETDAFGNSEGKELVASGENKIKQGLLPSLEDLLFYTIAEG
QEKIPVHKFITALKSTGLRTSDPRLKECMDMLRLTLQTTS DGVM LDKDLFKKCVQSNIVLLTQAFRRKLVIPDFM
SFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTVDGQRHSTGDTKVPFCLQSCVKPLKYAIAVNDL
GTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMV NAGAI VVTS LIKQGVNNAEKFDYVMQFLNKMAGNEYVGFSN
ATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDYFYQLCSIEVTCEASVMAATLANGGFCPITGERVLSP
EAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSGVAGGILLVVPNVMGMMCWSPPLDKMGNSVKGIHFCHDLVSLC
NFHNYDNLRHFAKKLDPRREGGDQRVKSVINLLFAAYTGDVSALRRFALSAMDMEQRDYDSRTALHVAAAEGHVE
VVKFLL EACKVNPFPKDRWNNTPMDEALHFGHHDVFKILQEYQVQYTPQGSDNGKENQTVHKNLDGLL

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FIGURE 661

CGCAGCAAACACATCCGTAGAAAGGCAGCGCGGCCGCCGAGAGCCGCAGCGCCGCTCGCCCGCCGCCCCCACCCC
GCCGCCCCGCCCCGGCGAATTGCGCCCCGCGCCCCCTCCCTCGCGCCCCCGAGACAAAGAGGAGAGAAAGTTTGCG
CGGCCGAGCGGGGCAGGTGAGGAGGGTGAGCCGCGCGGGAGGGGCCCGCCTCGGCCCGGGCTCAGCCCCCGCCCC
CGCCCCCAGCCCCGCCGCCGCGAGCAGCGCCCGGACCCCCCAGCGGCGGGCCCCCGCCCGCCAGCCCCCGGGCCCC
CCATGGGCGCCGCGGCCCGCACCCCTGCGGCTGGCGCTCGGCCTCCTGCTGCTGGCGACGCTGCTTCGCCCCGGCCG
ACGCCTGCAGCTGCTCCCCGGTGCAACCGCAACAGGCGTTTTGCAATGCAGATGTAGTGATCAGGGCCAAAGCGG
TCAGTGAGAAGGAAGTGGAATCTGGAAACGACATTTATGGCAACCCTATCAAGAGGATCCAGTATGAGATCAAGC
AGATAAAGATGTTCAAAGGGCCTGAGAAGGATATAGAGTTTATCTACACGGCCCCCTCCTCGGCAGTGTGTGGGG
TCTCGCTGGACGTTGGAGGAAAGAAGGAATATCTCATTGCAGGAAAGGCCGAGGGGGACGGCAAGATGCACATCA
CCCTCTGTGACTTCATCGTGCCCTGGGACACCCTGAGCACCACCCAGAAGAAGAGCCTGAACCACAGGTACCAGA
TGGGCTGCGAGTGCAAGATCACGCGCTGCCCCATGATCCCGTGCTACATCTCCTCCCCGGACGAGTGCCTCTGGA
TGGACTGGGTACAGAGAAGAACATCAACGGGCACCAGGCCAAGTTCTTCGCCTGCATCAAGAGAAGTGACGGCT
CCTGTGCGTGGTACCGCGGCGCGGCCCCCCCAAGCAGGAGTTTCTCGACATCGAGGACCCATTAAGAGGCCTCC
AACGCCCCCTGTGGCCAAC TGCAAAAAAGCCTCCAAGGGTTTCGACTGGTCCAGCTCTGACATCCCTTCTGGAA
ACAGCATGAATAAAACACTCATCCC

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FIGURE 662

MGAAARTLRLALGLLLLATLLRPADACSCSPVHPQQAF CNADVIRAKAVSEKEVDSGNDIYG NPIKRIQYEIKQ
IKMEFKGPEKDIEFIYTAPSSAVCGVSLDVGGKKEYLIAGKAEGDGKM HITLCDFIVP WDTLSTTQKKSLNHRYQM
GCECKITRCPMIPCYISSPDECLWMDWVTEKNINGHQAKFFACIKRSDGSCAWYRGAAPPKQEF LDIEDP

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FIGURE 663

GAATTCGGCACGAGCGACGCGGCCAGAGGCCAGGAACATTCCGCGCGTGGACCAGCCGGGCCAGGGCGATGCTG
CGGGTGCGGTGTCTGCGCGGCGGGAGCCGCGGCGCCGAGGCGGTGCACTACATCGGATCTCGGCTTGGACGAACC
TTGACAGGATGGGTGCAGCGAACTTTCCAGAGCACCCAGGCAGCTACGGCTTCCTCCCGAACTCCTGTGCAGCT
GACGACAAAGCCACTGAGCCTCTGCCCCAAGGACTGCCCTGTCTCTTCTTACAACGAATGGGACCCCTTAGAGGAA
GTGATAGTGGGCAGAGCAGAAAACGCCTGTGTTCCACCGTTCACCATCGAGGTGAAGGCCAACACATATGAAAAG
TACTGGCCATTTTACCAGAAGCAAGGAGGGCATTATTTTCCCAAAGATCATTGAAAAAGGCTGTTGCTGAAATT
GAAGAAATGTGCAATATTTTAAAAACGGAAGGAGTGACAGTAAGGAGGCCTGACCCATTGACTGGTCATTGAAG
TATAAACTCCTGATTTTGAAGTCTACGGGTTTATACAGTGCAATGCCTCGAGACATCCTGATAGTTGTGGGCAAT
GAGATTATCGAGGCTCCCATGGCATGGCGTTCACGCTTCTTTGAGTACCGAGCGTACAGGTCAATTATCAAAGAC
TACTTCCACCGTGGCGCCAAGTGGACAACAGCTCCTAAGCCCACAATGGCTGATGAGCTTTATAACCAGGATTAT
CCCATCCACTCTGTAGAAGACAGACACAAATTGGCTGCTCAGGGAAAATTTGTGACAACCTGAGTTTGAGCCATGC
TTTGATGCTGCTGACTTCATTGAGCTGGAAGAGATATTTTGCACAGAGAAGCCAGGTTACAACTACCTAGGC
ATTGAATGGATGCGTAGGCATCTTGCTCCAGACTACAGAGTGCATATCATCTCCTTTAAAGATCCCAATCCCATG
CATATTGATGCTACCTTCAACATCATTGGACCTGGTATTGTGCTTTCCAACCCTGACCGACCATGTCACCAGATT
GATCTTTTCAAGAAAGCAGGATGGACTATCATTACTCCTCCAACACCAATCATCCCAGACGATCATCCACTCTGG
ATGTCATCCAAATGGCTTTCCATGAATGTCTTAATGCTAGATGAAAAACGTGTTATGGTGGATGCCAATGAAGTT
CCAATTCAAAAGATGTTTGAAGAGCTGGGTATCACTACCATTAAAGTTAACATTGTAATGCCAATTCCCTGGGA
GGAGGCTTCCATTGCTGGACCTGCGATGTCCGGCGCCGAGGCACCCTACAGTCCTACTTGGACTTGAACAGGCCTG
ATGGAGCTTGTTGGCTGGCCTCAGATACACCTAAGAAGCTTAGGGGCAAGGTTCAATCTCCTGCTTTAAAAAGTGC
ATGAACTGTAGTGCTTTAAACAATCATCTCCTTAACAGGGGTCGTAAGCCTGGTTTGCTTCTATTACTTTTCTTT
GACATAAAGAAAATAACTTCTGCTAGGTATTACTCTCTACTCCTAAAGTTATTTACTATTTGGCTTCAAGTATAA
AATTTTGGTGAATGTGTACCAAGAAAAAATTAGTCACCTGAGTAACTTGGCCACTAATAATTAACCATCTACCTC
TGTTTTTAATTTTCTTTCCAAAAGGCAGCTTGAAATGTTGGTCCTAATCTTAATTTTTTTTCTCTCTATAGAC
TTGAGAATGTTTTTCTCTAAATGAGAGAAAGACTTAGAATGTACACAGATCCAAAATAGAATCAGATTATCTCTT
TTTTTCTAAAGGAGAGAAAGACTTAGAACATACACAGATCCTAAGTAGAACCAGGTAATTGTCTCTTTTTCTAAT
AAGGAATTTGGGTAAATTTTAAATTTTTTGTTTTTTAAAAAATAACCTAGACTATGCAAAACATCAAAGTGAATTT
TCCATGAATGTTTTTAATATTCTCATCTCAACATTGTGATATATGCTACTAAAAACCTTTTCATATACATCTTAC
CTCATTTCAGTGAATTATTTTAATCTTTTTCTCTCTTTCCAAAAATTTACAGGAATGTTTAGTGTAATTGGATT
TCGCTATCAGTTCCCATCCTTAAGTTTTGATATTCAATATCTGATAGATACACTGCATCTTTGGTCATCTAAGAT
TTGTTTACAAATGTGCAAATTATTTAGAGCATAGACTTTATAAGCATTAAAAAACTAATGGAGGTAAACCTA
AATGCGATGTGAAATAATTTTAGTGTTGATACTGTATGTGTATTTTTATTCTAATAAACTTTTGTGTTCCAGATT
GAAAA

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FIGURE 664

MLRVRLRGGSRGAEAVHYIGSRLGRTLIGWVQRTFQSTQAATASSRNSCAADDKATEPLPKDCPVSSYNEWDPL
EEVIVGRAENACVPPFTIEVKANTYEKYWPFFYQKQGGHYFPKDHLKKAVAEIEEMCNILKTEGVTVRRPDPIDWS
LKYKTPDFESTGLYSAMPRDILIVVGNEIIEAPMAWRSRFFEYRAYRSIIKDYFHRGAKWTTAPKPTMADELYNQ
DYP IHSVEDRHKLA AQGKFVTTEFEP CFDAADFIRAGRDIFAQRSQVTNYLGIEWMRRHLAPDYRVHII SFKDPN
PMHIDATFNIIGPGIVLSNPDRPCHQIDL FKKAGWTII TPPTPIIPDDHPLWMSSKWLSMNVLM LDEKRV MVDAN
EVPIQKMF EKLGITTIKVNIRNANS LGGGFHCWTCDVRRRGTLQSYLD

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FIGURE 665A

ATGGGGAGAAGACGGAGGCTGTGTCTCCAGCTCTACTTCCTGTGGCTGGGCTGTGTGGTGCTCTGGGCGCAGGGC
ACGGCCGGCCAGCCTCAGCCTCCTCCGCCAAGCCGCCCCGGCCCCAGCCGCCGCCGAACAGGTTCCGGTCCGCT
ACAGCAGGCTCTGAAGGCGGGTTTCTAGCGCCCGAGTATCGCGAGGAGGGTGCCGCAGTGCCAGCCGCGTCCGC
CGGCGAGGACAGCAGGACGTGCTCCGAGGGCCCCAAGTGTGCGGCTCCAGATTCCACTCCTACTGCTGCCCTGGA
TGGAAGACGCTCCCTGGAGGAAACCAGTGCATTGTCCCGATTTGTAGAAATAGTTGTGGAGATGGATTTTGTTC
CGTCCTAACATGTGTACTTGTTCAGTGGGCAAATATCATCAACCTGTGGATCAAAATCAATTCAGCAGTGCAGT
GTGAGATGCATGAATGGTGGGACCTGTGCAGATGACCACTGCCAGTGCCAGAAAGGATATATTGGAACCTATTGT
GGACAACCTGTCTGTGAAAATGGATGTGAGAATGGTGGACGTTGCATCGCCCAACCGTGTGCTTGTGTTTATGGG
TTCCTGGTCCACAGTGTGAAAGAGATTACAGGACAGGCCCGTGTTCCTCAGGTCAACAACCAGATGTGCCAA
GGGCAGCTGACAGGCATTGTCTGCACGAAGACTCTGTGCTGTGCCACCCTGGACGGGCGTGGGGCCATCCCTGT
GAGATGTGTCCAGCCCAGCCTCAGCCCTGCCGACGGGGTTTCATCCCCAACATCCGCACTGGAGCTTGCCAAGAT
GTTGATGAATGCCAGGCTATCCCAGGGATATGCCAAGGAGGAAACTGTATCAATACAGTGGGCTCTTTTGAATGC
AGATGCCCTGCTGGTCACAAACAGAGTGAAACTACTCAGAAATGTGAAGACATTGATGAGTGCAGCATCATTCCT
GGGATATGTGAAACTGGTGAATGTTCCAACACCGTGGGAAGCTATTTTTGTGTTTGTCCACGTGGATATGTAAAC
TCAACAGATGGCTCTCGATGCATCGATCAGAGAACAGGCATGTGTTTCTCGGGCCTGGTGAATGGCCGCTGTGCA
CAAGAGCTCCCGGGGAGAATGACGAAAATGCAGTGCTGCTGTGAGCCTGGCCGCTGCTGGGGCATCGGAACCATT
CCTGAAGCCTGTCTGTGAGAGGTTCTGAGGAATATCGCAGACTTTGCATGGATGGACTTCCAATGGGAGGAATT
CCAGGGAGTGCTGGTTCCAGACCTGGAGGCACTGGGGGAAATGGCTTTGCCCAAGTGGCAATGGCAATGGCTAT
GGCCAGGAGGGACAGGCTTCATCCCCATCCCTGGAGGCAATGGCTTTTCTCCTGGCGTTGGGGGAGCCGGTGTG
GGGGCCGGGGACAGGGACCTATCATCACTGGACTAACAATTCTGAACCAGACAATAGATATCTGTAAGCATCAT
GCTAACCTTTGTTTAAATGGACGCTGTATACCAACTGTCTCAAGCTACCGATGTGAATGCAACATGGGTTATAAG
CAGGATGCAAATGGAGATTGTATAGATGTTGATGAATGCACATCAAATCCCTGCACTAATGGAGATTGTGTTAAC
ACACCTGGTTCTATTATTGTAAATGTGCTGCTGGATTCCAGAGGACTCCTACCAAGCAAGCATGCATTGATATT
GATGAGTGCATCCAGAATGGGGTTCTTTGTAAAAACGGTCGATGCGTGAAGTGCAGATGGAAGTTTCCAGTGCATT
TGCAATGCCGGCTTTGAATTAACACAGATGGAAAAAAGTGTGTTGATCATGATGAATGTACAACCTACCAACATG
TGTTTGAATGGAATGTGCATCAATGAAGATGGCAGCTTCAAGTGCATCTGCAAACCAGGATTTGTCTTGGCTCCA
AATGGGCGTTACTGTACTGATGTTGATGAATGCCAGACCCCAGGAATCTGCATGAATGGGCACTGCATCAACAGT
GAAGGGTCTTCCGCTGTGACTGTCCCCAGGCCTGGCTGTGGGCATGGATGGACGTGTGTGTGTTGATACTCAC
ATGCGCAGTACCTGCTATGGAGGAATCAAGAAAGGAGTGTGTGTGCGTCCTTTCCCGGTGCAGTGACCAAGTCC
GAATGCTGCTGTGCCAATCCAGACTATGGTTTTGGAGAACCCTGCCAGCCATGCCCTGCAAAAAATTACAGCTGAA
TTCCACGGCCTTTGTAGTAGTGGAGTAGGTATCACTGTGGATGGAAGAGATATCAATGAATGTGCTTTGGATCCT
GATATATGTGCCAATGGGATTTGTGAAAACCTACGTGGTAGTTACCGTTGTAATTGCAACAGTGGCTATGAACCA
GATGCCTCTGGAAGAACTGTATTGACATTGATGAATGTTTAGTAAACAGACTGCTTTGTGATAACGGATTGTGC
CGAAACACGCCAGGAAGTTACAGCTGTACGTGCCCACAGGGTATGTGTTCCAGGACTGAGACAGAGACCTGTGAA
GATATAAATGAATGTGAAAGCAACCCATGTGTCAATGGGGCCTGCAGAAACAACCTTGATCTTTCAATTGTGAA
TGTTCCGCCCGGCAGCAAACCTCAGCTCCACAGGATTGATCTGTATTGACAGCCTGAAGGGGACCTGTTGGCTCAAC
ATCCAGGACAGCCGCTGTGAGGTGAATATTAATGGAGCCACTCTGAAATCTGAATGCTGTGCCACCCTCGGAGCC
GCCTGGGGGAGCCCCCTGTGAGCGGTGTGAACTAGATACAGCTTGCCCAAGAGGGCTTGCCAGGATTAAAGGTGTT
ACGTGTGAAGATGTTAATGAGTGTGAGGTGTTCCCTGGCGTTTGTCCAAATGGACGCTGTGTCAACAGTAAGGGA
TCTTTTTCATTGCGAGTGCCCTGAAGGCCTTACGTTGGATGGGACTGGCCGTGTATGTTTGGATATTTCGCATGGAG
CAGTGTTACTTGAAGTGGGATGAAGATGAATGCATCCACCCGTTTCTGGAAAGTTCCGCATGGATGCCTGCTGC
TGTGCTGTGCGGGCGGCTTGGGGCACCGAGTGTGAGGAGTGCCCCAAACCTGGCACCAAGGAATACGAGACACTG
TGCCCCCGCGGGGCTGGCTTTGCTAACCGAGGGGATGTTCTTACTGGGCGGCCATTTTACAAAGACATCAATGAA
TGCAAAGCATTTCTGGGATGTGCACTTATGGGAAGTGCAGAAATACAATCGGAAGCTTCAAATGCCGTTGCAAT
AGTGGCTTTGCTCTAGACATGGAGGAAAGAACTGCACGGACATCGACGAGTGCAGGATTTCTCCTGACCTCTGT
GGCAGTGGAACTGCGTCAATACACCGGGCAGCTTTGAGTGCAGTGTTCGAAGGCTATGAAAGTGGCTTCATG
ATGATGAAGAACTGCATGGACATTGACGGATGTGAACGTAACCCTCTCCTTTGTAGGGGTGGCACCTGTGTGAAC
ACTGAGGGCAGCTTTCAGTGTGACTGCCCCTGGGACACGAGCTGTACCATCCCGTGAGGACTGTGTGGATATT

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FIGURE 665B

AATGAATGCTCCCTGAGTGACAATCTCTGCAGAAATGGAAAATGTGTGAACATGATTGGAACCTATCAGTGCTCT
TGCAATCCTGGATATCAGGCTACGCCAGACCGCCAGGGCTGTACAGATATTGATGAATGTATGATAATGAACGGA
GGCTGTGACACCCAGTGCACAAATTCAGAGGGAAGCTACGAATGCAGCTGCAGTGAGGGTTATGCCCTGATGCCA
GATGGGAGATCGTGTGCAGACATTGATGAATGTGAAAACAATCCTGATATCTGTGATGGCGGCCAGTGTAACCAAC
ATTCTTGGAGAGTATCGCTGCCTCTGCTATGATGGCTTCATGGCTTCCATGGACATGAAAACATGCATTGATGTC
AATGAATGTGACCTAAATTCAAATATCTGCATGTTTGGGGAATGTGAGAACACAAAGGGATCCTTCATTTGCCAC
TGTCAGCTGGGTTACTCAGTGAAGAAGGGGACCACAGGATGTACAGATGTGGATGAGTGTGAAATTGGTGCTCAT
AACTGCGACATGCATGCCCTCATGTCTGAATATCCCAGGAAGCTTCAAGTGTAGCTGCAGAGAAGGCTGGATTGGA
AACGGCATCAAGTGTATTGATCTGGACGAATGTTCTAATGGAACCCACCAGTGTAGCATCAATGCTCAGTGTGTA
AATACCCCGGGCTCATACCGCTGTGCCTGCTCCGAAGGTTTTACTGGTGATGGCTTTACCTGCTCAGATGTTGAT
GAGTGTGCAGAAAACATAAACCTCTGTGAGAACGGACAGTGCCTTAATGTCCCGGTGCATATCGCTGCGAGTGT
GAGATGGGCTTCACTCCAGCCTCAGACAGCAGATCCTGCCAAGATATTGATGAATGCTCCTTCCAAAACATTTGT
GTCTCTGGAACATGTAATAACCTGCCTGGAATGTTTCATTGCATCTGCGATGATGGTTATGAATTGGACAGAACA
GGAGGGAACGTGTACAGATATTGATGAGTGTGCAGATCCTATAAACTGTGTCAATGGCCTATGTGTCAACACGCCCT
GGTGCCTATGAGTGTAACTGCCACCCGATTTTTAGTTGAACCCAACTGGTGTGGGTTGTGTTGACAACCGTGTG
GGCAACTGCTACCTGAAGTTTTGGACCTCGAGGAGATGGGAGTCTGTCTTGCAACACCGAGATCGGGGTGGGCGTC
AGTGCCTCTTTCATGCTGCTGCTCTCTGGGAAAGGCCTGGGGAAAACCCCTGTGAGACATGCCCCCTGTCAATAGC
ACTGAATATTACACCCTGTGTCCCGAGGTGAAGGCTTCAGACCTAACCCCATCACAATCATTTTTAGAAGACATT
GACGAATGCCAGGAGTTACCAGGTCTCTGCCAGGGTGGAAAACCTGCATCAACACTTTTGGGAGCTTCCAGTGTGAG
TGCCCAACAAGGCTACTACCTCAGCGAGGATACCCGCATCTGTGAGGATATTGATGAGTGTGTTTGACATCCTGGT
GTGTGTGGGCTTGGACCTGCTATAACACCCTGGGAAATTACACCTGCATTTGCCACCTGAGTACATGCAGGTC
AATGGAGGCCACAACCTGCATGGACATGAGAAAAAGCTTTTGCTACCGAAGCTATAATGGAACCACCTTGTGAGAAT
GAGTTGCCCTTTCATGTGACAAAAAGGATGTGCTGCTGCACATATAATGTGGGCAAAGCTGGGAACAAACCTTGT
GAACCATGCCCCAACTCCAGGAACAGCTGACTTTAAACCATATGTGGAAATATTCCTGGATTACCTTTGACATT
CACACAGGAAAAGCTGTTGACATTGATGAATGTAAAGAGATTCCAGGCATTTGTGCAAATGGTGTGTGCATTAAAC
CAGATTGGCAGTTTCCGCTGTGAATGCCCTACAGGATTACAGTTACAATGACCTGCTGTTGGTTTGTGAAGATATA
GATGAGTGCAGCAATGGTGATAATCTCTGCCAGCGGAATGCAGACTGCATCAATAGTCTGGTAGTTACCGCTGT
GAATGTGCCGCGGGTTTCAAACTTTACCCAATGGGGCTGTGTAGATCGCAATGAATGTTTAGAAATTCTTAAC
GTTTGCAGTCATGGCTTGTGTGTTGATCTGCAAGGAAGTTACCAGTGCATCTGCCACAATGGCTTTAAGGCTTCT
CAGGACCAGACCATGTGCATGGATGTTGATGAGTGCAGCGGCACCCATGTGGAAATGGAACCTGTAAAAACACC
GTTGGATCCTATAACTGTCTGTGCTACCCAGGGTTTGAACCTCACTCATAATAATGATTGCCTGGACATAGATGAG
TGCAGTTCTTTTTTGGTTCAGGTGTGCAGAAATGGACGTTGTTTTAATGAAATTGGTCTTTTCAAGTGTCTATGT
AACGAAGGTTATGAACTTACCCAGATGGCAAAAACCTGTATAGACACTAATGAGTGTGTGCCCCCTTCCCGGCTCT
TGCTCTCTCTGGTACCTGTGAGAATTTGGAGGGATCCTTCAGATGCATCTGTCCCCCAGGGTATGAAGTAAAAAGC
GAGAACTGCATTGATATAAATGAATGTGATGAAGATCCCAACATTTGTCTTTTTGGTTCCTGTACTAATACTCCA
GGGGGCTTCCAGTGCTCTGCCCCCTGGCTTTGTACTATCTGATAATGGACGGAGATGCTTTGATACTCGCCAG
AGCTTCTGCTTCACAAATTTTGAAAATGGAAAGTGTCTGTACCCAAAGCTTTCAACACCACAAAAGCAAAATGC
TGCTGTAGTAAGATGCCAGGAGAGGGCTGGGGGGACCCCTGTGAGCTGTGCCCCAAAGACGATGAAGTTGCATTT
CAGGATTTGTGTCCATATGGCCATGGAACCTGTCCCTAGTCTTCATGATACACGTGAAGATGTCAATGAGTGTCTT
GAGAGCCCAGGCATTTGTTCAAATGGTCAATGTATCAACACCGACGGATCTTTTCGCTGTGAATGTCCAATGGGC
TACAACCTTGACTACACTGGAGTACGCTGTGTGGATACTGATGAGTGTTCATCGGCAATCCGTGTGGAAATGGT
ACATGCACCAATGTTATTGGGAGTTTTGAATGCAATTGCAATGAAGGCTTTGAGCCAGGGCCCATGATGAATTGT
GAAGATATCAACGAATGTGCCAGAACCCACTGCTGTGTGCTTTACGCTGCATGAACACTTTTGGGTCTCTATGAA
TGCACGTGCCCGATTGGCTATGCCCTCAGGGAAGATCAAAAGATGTGCAAAGATCTGGATGAATGTGCTGAAGGG
TTACACGACTGTGAATCTAGGGGCATGATGTGTAAGAATCTAATCGGCACCTTCATGTGCATCTGCCCTCCTGGA
ATGGCCCGAAGGCCCGATGGAGAAGGCTGTGTAGATGAAAATGAATGCAGGACCAAGCCAGGAATCTGTGAAAAT
GGACGTTGTGTTAACATTATTGGAAGCTATAGATGTGAGTGTAAATGAAGGATTCCAGTCAAGTCTTCAGGCAT
GAATGCCTTGACAATCGACAGGGTCTCTGCTTTGCAGAGGTACTGCAGACAATATGTCAAATGGCATCCAGTAGT

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FIGURE 665C

CGCAATCTCGTCACTAAGTCAGAATGCTGCTGTGATGGTGGGCGAGGCTGGGGCCACCAGTGCGAGCTTTGCCCA
CTTCCTGGAACCTGCCCAGTACAAAAAGATATGTCCTCATGGCCCAGGATATACAACCTGATGGAAGAGATATTGAT
GAATGTAAGGTAATGCCAAACCTCTGCACCAATGGTCAGTGCATCAATACCATGGGCTCATTCCGATGCTTCTGC
AAGGTTGGCTACACCACAGACATCAGTGAACCTCTTGATAGACCTTGATGAATGCTCCAGTCCCCGAAACCA
TGCAACTACATCTGCAAGAACACTGAGGGGAGTTATCAGTGTTTCATGTCCGAGGGGGTATGTCCTGCAAGAGGAT
GGAAAGACATGCAAAGACCTTGATGAATGTCAAACAAAGCAGCATAACTGCCAGTTCCTCTGTGTCAACACCCTG
GGGGGGTTTACCTGTAAATGTCCACCTGGTTTCACACAGCATCACACTGCTTGTATCGACAACAACGAATGTGGG
TCTCAACCTTTGCTTTGTGGAGGAAAGGGAATCTGTCAAAACACTCCAGGCAGTTTCAGCTGTGAATGCCAAAGA
GGGTTCTCTCTTGATGCCACCGGACTGAACTGTGAAGATGTTGATGAATGTGATGGGAACCACAGGTGCCAACAC
GGCTGCCAGAACATCCTGGGTGGCTACAGATGTGGCTGCCCCCAAGGCTACATCCAGCACTACCAGTGGAATCAG
TGTGTGCGATGAGAATGAATGCTCCAATCCCAATGCCTGTGGCTCTGCTTCCTGCTACAACACCCTGGGGAGTTAC
AAGTGCGCCTGCCCCCTCGGGGTTCTCCTTCGACCAGTTCTCCAGTGCCCTGCCACGACGTGAATGAGTGCTCGTCC
TCCAAGAACCCTGCAATTACGGCTGCTCTAACACGGAGGGGGGCTACCTCTGTGGCTGCCCCCTGGGTATTAC
AGAGTGGGACAAGGCCACTGTGTCTCAGGAATGGGATTTAAACAAGGGGCAGTACCTGTCACTGGATACAGAGGTC
GATGAGGAAAAATGCTCTGTCCCCAGAAGCATGCTACGAGTGCAAAATCAACGGCTATCCTAAGAAAGACAGCAGG
CAGAAGAGAAAGTATTCATGAACCTGATCCCACTGCTGTTGAACAGATCAGCCTAGAGAGTGTGACATGGACAGC
CCCGTCAACATGAAGTTCAACCTCTCCACCTCGGCTCTAAGGAGCACATCCTGGAACCTAAGCCCCGCCATCCAG
CCCCCTCAACAACCACATCCGTTATGTTCATCTCTCAAGGGAACGATGACAGCGTCTTCCGCATCCACCAAAGGAAT
GGGCTCAGCTACTTGACACCGGCCAAGAAGAAGCTCATGCCCGGCACATACACACTGGAAATCACTAGCATCCCT
CTCTACAAGAAGAAGGAGCTTAAGAAACTGGAAGAGAGCAATGAGGATGACTACCTCCTAGGGGAGCTTGGGGAG
GCTCTCAGAATGAGGCTGCAGATTGAGCTCTATTAACCGTTCACAGACTTGGGCCCAGGCTCAAATCCTAGCACAC
GCCAGTCTGCAGAAGCATTTGAAAAGTCAAGGACTAATTTTAAAGAGGAAAAATAATAATAACTCTTGTTTCTTT
CCTCCCTGTCTTAGACTTTGAATGTTGACCCTCACAGGGAGGGATAATTTAGACTCTGGTATGGCCAAAGATTG
AGCTCAAAGGCAACCGTGGTTACTGTATTTTTTATATAACTTCATTTTAAATATATTTAAAGAAACCTAAATGT
TCAAGATATCAGCATATGGCACTAAATGCACAAAAATAATGTGAGCTTTTTTTTTTTTTTCTGTGTAGCAGTCTG
TAACACTTTGGGTATTTTGTCTATAGTTGCTAATTAATAAATAATAGATGTTTATTTATTTTAAATGCAGTAATAT
ATGGAGAAATGAACAACTATGTAAACAAAAAGGGAACTCACTTGTTTTCTTTAGATTTATAAATTTGAGCTA
TTTTTTTTTAGAGGTGCTTTTTTAAAAATCCAATAGATACAAGAGATGTTTCCTTTGGTTTTCTGCCAGTCATCCAG
CTGATACACACCTGATCGATTTTAAAGAAAGCCACACAGAGCTGAATCGGGCAGTGCTAATCAATAATTTAAAG
ACATGAATGTCATTAGATCCTTTATAACGTAGATCGAAGCCAAAGCAGCTCATTGTGACAACATTTTCATATCAC
CAGACACACCAGGCAACAGAAGTTGAAGCACAACTGCTAGCAAAATACCTTGACTGCTTGTGAGACCATTAGC
ATTGCAGGCCAAACCGTACTGTATTTCTTCTCATAACCTCAAGGAACCATATGTGCTACCCACAACACCTCATT
CTTACCCAGGGTGCGCTGCGTCTCATGGTACTGTAGGCAGCTGAAGAACCAGCGTTCCCTTGAAAGGGAAACACC
TGGCATTCTGTGGTGTTCGIGCTGTCTTAAATAATGGTGCATTTATTATGTTCAAGTTATTTTCAAGATTGCCAT
ATGTGCAAAACAAATCATGCAATGCAGCCAAGGAATATATGTTGTTGTTGTTGTTTAAACCCATTTTTTTTTTAG
AATTTTCATTAATACTGTAGTTATACACCATATGCCTCATTTTATCATAGCCTATTGTGTATGAAAGATGTTTGT
ACAATGAATTGATGTTTAGTTTGCTTTAGTCATTTAAAAAGATATTGTACCAGGATGTGCTATTAAGAGCACGTA
TCCATTATTCTTCTCAACCCAAGAACCTGTTTCCCTGGACCAGTGACCAAACCTCATATGTGAAATGGCCAAAGCA
CATGCAGGCTCCTGGTTGTTTCTCTCAACCTGTGCTGACCAAAGATTAGTAACCAGTTATACCCAGTATTTTGA
GGTTTTATTGTTTTTTTTTAATAACTAAAAAAAACCTCGTGCC

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FIGURE 666

MGRRRRRLCLQLYFLWLGCVVWLWAQGTAGQPQPPPPKPPRPQPPFQQVRSATAGSEGGFLAPEYREEGA AVASRVR
RRGQQDVLRGPNVCGSRFHSYCCPGWKTLPGGNQCIVPICRNSCGDGFCSRPNMCTCSSGQISSTCGSKSIQQCS
VRCMNGGTCADDHCQCQKGYIGTYCGQPVCENGCQNGGRCIAQPCACVYGFTGPGQCERDYRTGPCFTQVNNQMCQ
GQLTGIVCTKTLCCATTGRAWGHPCEMCPAQPPQPCRRGFIPNI RTGACQDVDECQAIPGICQGGNCINTVGSFEC
RCPAGHKQSETTQKCEDI DECSIIPGICETGECSNTVGSYFCVCPRGYVTSTDGSRCIDQRTGMCFSGLVNGRCA
QELPGRMTKMQCCCEPGRCWGIGTIPEACPVRGSE EYRRLCMDGLPMGGIPGSAGSRPGGTGGNGFAPSGNGNGY
GPGGTGFIPIPGGNGFSPGVGGAGVGAGGQGP IITGLTILNQTIDICKHHANLCLNGRCIPTVSSYRCECNMGYK
QDANGDCIDVDECTSNPCTNGDCVNTPGSY YCKCHAGFORPTKQACIDIDE CIQNGVLCKNGRCVNSDGSFQCI
CNAGFELTTDGKNCVDHDECTTTNMCLNGMCINEDGSFKCICKPGFVLAPNGRYCTDVDECQTPGICMNGHCINS
EGSFRDCPPGLAVGMDGRVCDTHMRSTCYGGIKKGVCVRPFP GAVTKSECCCANPDYGFGEPCQPCPAKNSAE
FHGLCSSGVGITVDGRDINECALDPDICANGICENLRGSYRCNCNSGYEPDASGRNCIDIDECLVNRLLCDNGLC
RNTPGSYSCTCPPGYVFRTE TETCEDINECESNPCVNGACRNNLGSFNCECSPGSKLSSTGLICIDSLKGT CWLN
IQDSRCEVNINGATLKSECCATLGAAWGSPCERCELDTACPRGLARIKGVTCEDVNECEVFPGVCPNGRCVNSKG
SFHCECPEGLTLDGTGRVCLDIRMEQCYLKWDEDECIHPVPGKFRMDACCCAVGA AWGTECEECPKPGTKEYETL
CPRGAGFANRGDVL TGRPFYKDINECKAFPGMCTY GKC RNTIGSFKCR CNSGFALDMEERNCTDIDE CRISPDLC
GSGICVNTPGSFECECFEGYESGFM MMKNCMDIDGCERNPLL CRGGTCVNTEGSFQDCDPLGHELSPSRED CVDI
NECSLSDNLCRNGKCVNMIGTYQCSCNPGYQATPDRQGCTD IDECMIMNGGCDTQCTNSEGSYECSCSEGYALMP
DGRSCADIDECENNPDICDGGQCTNIPGEYRCLCYDGF MASMDMKT CIDVNECDLNSNICMFGECE NTKGSFICH
CQLGYSVKKGTTGCTDVDECEIGA HNCDMHASCLNIPGSFKCSCREGWIGNGIKCIDLDECSNGTHQCSINAQCV
NTPGSYRCACSEGFTGDGFTCSDVDECAENINLCENGQCLNVP GAYRCECEMGFTPASDSRSCQDIDECSFQNIC
VSGTCNNLPGMFHCICDDGYELDRTGGNCTD IDECADP INCVNLGVNTPGRYECNCP PDFQLNPTGVGCVDN RV
GNCYLKFGPRGDGSLSCNTEIGVGVSRSSCCCSLGKAWGNPCETCPPVNSTEY YTLCPGGEGFRPNPITIILEDI
DECQELPGLCQGGNCINTFGSFQCECPQGY YLSEDTRICEDIDE CFAHPGVCGPGTCYNTLGN YTCICPPEYMQV
NGGHNCMDMRKSFCYRSYNGTTCENELPFNVTKRMCCCTYNV GKAGNKPCEPCPTPGTADFKTICGNIPGFTFDI
HTGKAVIDECKEIPGICANGVCINQIGSFRCECPTGFSYNDLLLVCED IDECSNGDNLCQRNADCINSPGSYRC
ECAAGFKLSPNGACVDRNECLEIPNVCSHGLCVDLQGSYQCICHNGFKASQDQTMCM DVDECERHPCGNGTCKNT
VGSYNCLCYPGFELTHNNDCLDIDECSFFGQVCRNGRCFNEIGSFKCLC

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FIGURE 667A

GGGGAGGAAGAAAGGCGAAGGCAAGGCGAAGGGGTGGAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGACAGCG
GACGAGCAGATCCGGTATCTGGAATCCCGGCGCCTAGAACGTGTTTTTCGGGAGAGCAAAGGCTGTGTCTACGGC
AGGCTGGGGATATAGCCTCTCCTTCCGATGAAAAGAGAAAGGAAGAAATGGACTACAGCCACCAAACGTCCCTAGT
CCCATGTGGACAAGATAAATACATTTCCAAAATGAACCTCTCTTGCATCTGAAGACCTACAACCTTGTACTATGA
AGGCCAGAATTTACAGCTCCGGCACCGGGAGGAAGAAGACGAGTTCATTGTGGAGGGGCTCCTGAACATCTCCTG
GGCCTGCGCCGGCCCATTCGCCTGCAGATGCAGGATGACAACGAACGCATTTCGACCCCTCCATCCTCCTCCTC
CTGGCACTCTGGCTGTAACCTGGGGGCTCAGGGAACCACTCTGAAGCCCTGACTGTGCCCAAAGTTTCAGATCTC
AGAGGTGGATGCCCCGCCGGAGGGTGACCAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCTGCAGGA
GGACACCCACAGCTGATGCGCACACGCAGTGATGTTGGGGTGCCTGCGCCGTGGCAATGTGAGGACGCCTAGTGA
CCAGCGGCGAATCAGACGCCACCGCTTCTCCATCAACGGCCATTTCTACAACCATAAGACATCCGTGTTACACC
AGCCTATGGCTCTGTACCAACGTCCGCATCAACAGCACCATGACCACCCACAGGTCCTGAAGCTGCTGCTCAA
CAAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCTTGTACGTGGTCCATACGAGTGGTGAGAAACAGAAGCT
GAAGGCCACCGATTACCCGCTGATTGCCGAATCCTCCAGGGCCCATGTGAGCAGATCTCCAAAGTGTTCTTAAT
GGAGAAGGACCAGGTGGAGGAAGTCACCTACGACGTGGCCCACTATATAAAGTTTCGAGATGCCGGTACTTAAAG
CTTCATTTCAGAAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCAAGTACACCGTGCTCCGGCT
AATGATTTCGACAGAGGCTGGAGGAGATAGCCGAGACCCACGAACAATCTGAGCCATGAGAACGAGGGGATCTGG
GCACCCAGGAACCGCCATTGCCATAAGACCCCAAGGAAGCTAGGCACTTTCTTTCCATGGAAACATTTAGACA
CAAACCTCCCCAGCTCCGGCCAAGCCATCATTGTCTACCTGGAGCTGGATGTAGAAGTCAGCAGACAGCTCCCTA
TCCCTGGACCCCTGCCCTCCTTTTTTCTGCTCACAAGGACTTTTGATTTTAGTTATAAGGAGGACCCAAAATGTG
TGTGTGTACATGTGTGTGCACACATGGTACGTGTCCATGTGCCTACCTGATACCTTTCACATGTAATTAATTTCCA
GGCAACCAGCACAAAGAGCCGTGAGCTTGGCACATGTGCTGCTCGTGAGCAGGAAAATCAGAGGAGCCACTGATCT
GAGTGGTATTTAGGTTGAAGGAAAGATTTCTCCTCTCAAGTGCCAGGGAGCAGCCACACGTCTGTCTGTGTTTAG
AGAGGGAAGAGGGTTCTCCAGGTTACCATTTGGGTTGTTTATATGTTGGTAGAAATCTCCCTGTATGCCTAGA
AGGATCAGTGAATGTAAGAGCCTTGGAATTAACAAAATAACAGCCACATAACCTTGCGGCAAGTCTGATGGAAA
GAAAAAGATAAACCATCCGTGGGGTAGATGCAATAAGCCACGTATTTTTTACACTGGAACGTTGATTGTTTTAA
ATGACAAAGACATATGTGATGTTCTATGTGGAACCTGTGAAGAGTGGATTCTGCCTCCATCTCTGCCTCCATGG
CTACCTTTAGGAGACAGAGAAGATCCTGTGTGTTTCTCTGTACCCAGCTGACAGCCTGTCTCTATGGCGCTTCCT
TGAGTGGAAAGGAAATGTCTCAAGAAACAAAGATCTCGCTGGTGCGTACACAGTGTGACAGCTAGTGTGGCCAG
GGCCTGGTGGCTGGTGGCCAGGAAGTTTCAGGTTGAAGGGAAATGTGAGGCTACCTGCAGATATGACAGGTGC
CTTGAACGCAGCCCATCTTCATGTTCATCAAAGGTCTTCTGCACTTGAAGCTGGGGCGATGTTTGCAGTCAAGAC
CATTCTTTCCAACCTCTGGGTTCTTGCAAGTTGCCCTCACCTTGTGTGTGGAGATGCATTCCAAGAATGAAGCCT
CATCTTGCTACTGAGTGTGGGGTTCAGGGAAGCTCTTTAGGCCACCTGGTGAAGGTGCATGGGGAGGATGGAGCT
TCTCCTCAGCTCCTCTGAGCAGCCACCTATGTGATCTTTAAATCCAACCCCAATGGGAGAAAAGGGCAAGAACAG
TCTGTGCCCTGGGACTCCTATCAGGAAGCTTGACAGGCAGCTGGGCATCAGTGCAGCTGATATCGTTTGAGGAGG
GAGACAGATGCTTGGACCTGGGTGCCTGGCTATGGAGATTGACCAAGCAAGATCAGGAGCTCCTGATAGCAGGCG
TCTTTGAGCCTAGCTGGGGTAGAGGCACTGCCCATCTCTTCTCCACCTTCTCTCCACAGAATGTTTGCAGAGCTG
GGCAGTTGAGGAAAGGACAGCCCCTGGTTGGTGCTCCAAAGGAAGGTGGACTTTTTTGGTGGAGACGTTTCTGC
CCTGGGCACCCCTCCTGCCCCCGATTTCATACCTATGGCTTCTTGAGAAGGCTCACAGCTGTGGTCTTAACGTAGAC
TGCAGAAAAGATGGCATGCGGCCCTGGCATTTCGCCAAGGGTTTTATAGCAAGTCTCCTTCCCTCCATAGGGACAG
CAGCACCAGCCCTGTGGGGCATGGAGTGAAGCCAGAGGGCTTCTGCAAGCTGCACAGAACTGGGGTAAGAAG
ACAAAGAGTAGCCACCGGGAGAGGCTTCCCTTTGTTACAGCTGGGAAAGAACAGTTCTGTGAATGCAACACCTCC
TGAGTTTTGCAATTGAGAAAATGATTTGGAGAAGTCTCTTCTGGTAATTTTTTATTTTGAATGTTTCAGGGCCTTA
GTTGGCCCCAGTAATTTCTCCTTGGAGGACTTGGGAGAAGAATTTCCACAAAGCAAACCTACTAACCCTAGCTCTT
ACTGGACAGCGATTTCTGGCTTATAAGAGTTCTCTTTGATTGCACTAGCACTACGATAGTGTAGATGGGGAAA
TACTGCAACATGTCCAGTTGGCCAGATCACTTTCCAAGGGAGCGATACTAAGGCAGACTCAGCTTTTTAAAGATG
GGAGGTCAGGAGGTGGAAGTGAGAGGAGATCCCATCTCACACAACACACTCCACGTAATGCAGACCACACTTTT
CCATTTTGTCTGCTGCTCTTGGAGAGTCAATTTCTACGTCTAAGAACCTGATCAGAAATTTTGAAGGGTCTT
TGAAATAGCAGCAGTTGAAACAGAGACACTTTGCCACAGTGTGGAGCAGATTTTCTCACTGGTATCACATGGTCT

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FIGURE 667B

TGCAGTTTTGAACTCTTCGACCGATTTGTGGGAGTTTATGTAATTGCGTGCAATGAACCTGAAATTGTGTAAAGG
ACAAAAGACCAGTTTATAGGGTTGGGTTTTTTTTTCCAACCTGTGAAAAGCAGTTTAGCTGCATCTGTCTCCCCAC
CACCCCCACCCCGGGAGGGGCTTATGTTACAAGGTGATCAAGTGAAGGAAAAACCTGAGCCTATCTGGCTGGGAT
GGTGGAATTAAGCACAAAGGTCACATTCTCTGTGATCAGATGAGAGGGAAGGTGATGACTTAAATGGCAGGGGGTG
GGGATTATCTTGGGGAGAGGCTGAAAAGCACAAAAGATAGTCTTCCCTGTACGTATTGGTGAAGAACGTGCACAA
GGCTGGATGGACTTCAACTTGGAGTTGAGTTGAGGCAAGAGGATTCTGGATATTAGTCACCCATCTGCAAGAAA
AATGCTGAGGCCTCGGGTCAAGATTTTGATCTGAGACATGCTGATGCTTCAAGGAGAAATATTTTACAATCCTC
TCTTCCCTCACCAGAAGAGAACAGTACTCTCTCCTAGAAACCTCTAGGTAAACACATTTTATCCTAATATCGGTA
GCATATAATGCCCCCCCCAAAATATCTGTTTTCCATGCAAAAAAGTCTCAACAAGAAGTCTGTGGAGTTGAGTGG
TTACTTCAAAGTGTGAGGAGAGTGAAGAAATTGGCCACAGAAGAGCAAGAAGCTCTCTTAAGAAAAGGGAATTCT
CTTTAAAGAAACCACCACCAACAACAAAACAACCAAAAACCATGTTTTATGTCAAAGCTCTGTAGCACAGAGAAT
GTGGTGTACAGATACATCGCCGAGAGAGGTTTCTTTCTTTCTTTTTTTTTTTTTTTTGGAGACAGAGTCTGGTTCTG
TTTCCCAGGCTGGAGTGCAGTGGTGGGATCTCAGCTCACTGCAACATCCGCCCTCTGGGGTTCAAGTGATTCTCCT
GTCTCAGCCTCCCAAGTAGCTGGAATTACAGGGACCCGCCACCACGCCCGGCTAATTTTTTTTGTGTGGTTTTAGT
AGAGGTGGGGTTTCACCATCTTGGCCAGGCTGGTCTTGAACCTCTGACCTCGTGATCCACCCGCCTAGGCCTCCC
AAAGTGTTGGGATTACAGGCGTGAGCCACTGTGCCCAGCCAAAAGAGAAATTTCTACATGAACAAGGCAATTTCA
GTGTCTTACAGCGGCCAAACCATGACGTGAAGAATGAGATAGGAGACAGGAGATCACCATAAGCGTCCCTGATAT
AGCAGCACACATTTTACGTTTCCACTTAAATCGTTTTGCACAAAAGTCTTGCTTCGCTCAGATGAGATGAGATAT
GATTTCTAGAGATGTAAAAATAAGAATGAATGTGGCGCCCCCTTCTTCCAGATGTAATAGAAAGCTCTGCCCTA
TCACAAGGGGGGTGTTGAAGCGCCCCTTGTGTTTTAACTGTATTTAACTGAGCACAAGATGCACAAGCTGTGGTG
GGAAACCTCAGTTTACCTTTGGAGTCTTCCCTGCAGATCGCAGACCTGTTTCCAGGCTGATGTTTCTGGTGTGT
AATTGCTAGCGTTTCTGAAGGGTTTTCCCAATTGTTTTAGCCTTGTAAGTATTCTTAATTATAACTTGCCTTTC
AGCGATGGTACATGACTTGATTCAACGTTTGGTTCTGAACCTACACACTGATGCGTTTACTCATCTAACATAATC
TGACAGGGCCTCAGCAAGGGAGCCATACATTTTTGTAAACATTTTGATATGTTTTAATGCATCTGACTTAGATCTT
ACTGAAATAAAGCACTTTTCAAAGAG

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FIGURE 668

MDYSHQTSIVPCGQDKYISKNEILLHLKTYNLYYEGQNLQLRHREEEDEFIVEGLLNISWGLRRPIRLQMDDNE
RIRPPSSSSSWHSGCNLGAQGTTLKPLTVPKVQISEVDAPPEGDQMPSSSTD SRGLKPLQEDTPQLMRTRSDVGVR
RRGNVRTPSDQRRIRRRHRSINGHFYNHKTSVFTPAYGSVTNVRINSTMTTPQVLKLLLNKFKIENSAAEFALYV
VHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEMPVLKSFIQKLQEEEDREVKK
LMRKYTVLRLMIRQRLEEIAETPATI

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FIGURE 669

CCCGCTGGCCCAATGGCAGCGTCCTACAGTGTAGCCTCCGCCTCCCGATTGACTGGCCTGCTTGGCAAGGCAAGT
AGCGGCGGCGCTTCAAGATGCGCTGCCTGACCACGCCTATGCTGCTGCGGGCCCTGGCCCAGGCTGCACGTGCAG
GACCTCCTGGTGGCCGGAGCCTCCACAGCAGTGCAGTGGCAGCCACCTACAAGTATGTGAACATGCAGGATCCCG
AGATGGACATGAAGTCAGTGA CTGACCGGGCAGCCCGCACCCCTGCTGTGGACTGAGCTCTTCCGAGGCCTGGGCA
TGACCCCTGAGCTACCTGTTCCGGGAACCGGCCACCATCAACTACCCGTTTCGAGAAGGGCCCGCTGAGCCCTCGCT
TCCGTGGGGAGCATGCGCTGCGCCGGTACCCATCCGGGGAGGAGCGTTGCATTGCCTGCAAGCTCTGCGAGGCCA
TCTGCCCCGCCCAGGCCATCACCATCGAGGCTGAGCCAAGAGCTGATGGCAGCCGCCGGACCACCCGCTATGACA
TCGACATGACCAAGTGCATCTACTGCGGCTTCTGCCAGGAGGCCTGTCCCGTGGATGCCATCGTCGAGGGCCCCA
ACTTTGAGTTCTCCACGGAGACCCATGAGGAGCTGCTGTACAACAAGGAGAAGTTGCTCAACAACGGGGACAAGT
GGGAGGCCGAGATCGCCGCCAACATCCAGGCTGACTACTTGTATCGGTGACGCCCCACCGGCCTGCAGCCCTGC
TGCCCAATAAAACCACTCCGACCCACGG

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FIGURE 670

MRCLTTPMLLRALAQAARAGPPGGRSLHSSAVAATYKYVNMQDPEMDMKSVIDRAARTLLWTELFRLGMLTSLYL
FREPATINYPFEKGPLSPRFRGEHALRRYPSGEERCIACKLCEAICPAQAITIEAEPRADGSRRTRYDIDMTKC
IYCGFCQEACPVDAIVEGPNFEFSTETHEELLYNKEKLLNNGDKWEAEIAANIQADYLYR

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FIGURE 671A

CTCCTTCCATAAGGGTCTGGTCCTTCATCCCTCCCGCTTCACCAGACCCCTCACCTGGGAGCCGCCACCTCCC
TTTCCCCAAGACCAGATGTCGCGCGGCCGGACACAGCCAGCACGGAGAGTCGATGCCGGCGTCTGAGCTGCGCAG
TGGGGTCTTCCCGCTGCCCAGCAGCCTACAGGCGCGGTGCACTCTGGGGGAACATGGCCGCTTCCGGTCTCCCTC
CCGGGCCGGCGCTGGCCTGACTGCGGCCCCGGTCCGTAGCACTCCGCCCTCCGCTTCTCCCGCCCTGTAGCCGCG
AAGACTGCTTCAGCCTTTCCCTGTGCTGCCCCCTGCCGCGCGATGAGACGAGCTCGAGCTGCGAGAGTCTTGGCT
CCCAGCCGGCGCGGCTCGGCCGCCAGCGTGGACTCCTTGTCAGTGCCTCCACTTCTCATTGAGAGAATTGAG
TGCATACAAAATCAGCTTCTGTTGTATCATCAGATTCCATTCAACTTCTGCCGACAACCTTTCTCCTGATTGA
GGGTCTGAGGGAGTCTAACAAGTTAGCAGAAATGGAAGAACCACCCTTGCTTCCAGGAGAAAATATTAAAGACA
TGGCCAAAAGATGTAACCTTATATATGTCCATTCACTGGCGCTGTACGAGGAACCTGACTGTCACGAATTATAGGT
TATATTTCAAAGCATGGAACGGGATCCCCATTTGTTTTAGATGCTTCCCTTGGTGTGATAAATAGAGTAGAAA
AAATTGGTGGTGCTTCTAGTCGAGGTGAAAATTCTTATGGACTAGAACTGTGTGTAAGGATATTAGGAATTTAC
GATTTGCTCATAAACCTGAGGGGCGGACAAGAAGATCCATATTTGAGAATCTAATGAAATATGCATTTCTGTCT
CTAATAACCTGCCTCTTTTTGCTTTTGAATACAAAAGATATCCCTGAAAATGGGTGGAAGCTATATGACCCTC
TTTTAGAGTATAGAAGGCAGGGAATTCCAAATGAAAAGCTGGAGAATAACAAAGATAAATGAACGATATGAACTTT
GTGATACATACCCTGCCCTCCTGGTTGTGCCAGCAAATATTCCTGATGAAGAATTAAAGAGAGTGGCATCCTTCA
GATCAAGAGGCCGTATCCCAGTTTTATCATGGATTTCATCCTGAAAGTCAAGCCACAATCACTCGGTGTAGCCAGC
CCATGGTTGGAGTGAGTGGAAGCGAAGCAAAGAAGATGAAAAATACCTTCAAGCTATCATGGATTCCAATGCC
AGTCTCACAAAATCTTTATATTTGATGCCCGGCCAAGTGTTAATGCTGTTGCCAACAAGGCAAAGGGTGGAGGTT
ATGAAAGTGAAGATGCCTATCAAATGCTGAACTAGTTTTCTGGATATCCACAATATTCAATGTTATGAGAGAAT
CATTACGAAAACCTTAAGGAGATTGTGTACCCCAACATTGAGGAACTCACTGGTTGTCTAACTTGAATCTACTC
ATTGGCTAGAACATATTAAGCTTATTCTTGACGGGGCTCTTAGGATTGCTGACAAGGTAGAGTCAGGGAAGACGT
CTGTGGTAGTGCACTTGCACTGATGGTTGGGATCGCACAGCTCAGCTCACTTCCCTTGCCATGCTCATGTTGGATG
GATACTATCGAACCATCCGAGGATTTGAAGTCCTTGTTGGAGAAAGAATGGCTAAGTTTTGGACATCGATTTCAAC
TAAGAGTTGGCCATGGAGATAAGAACCATGCAGATGCAGACAGATCGCCTGTTTTCTTCAATTTATTGACTGTG
TCTGGCAGATGACAAGACAGTTTTCTACCGCATTTGAATTCAATGAGTATTTCTCATTACCATTTTGGACCACC
TATACAGCTGCTTATTCGGAACATTCTCTGTAATAGTGAACAACAGAGAGGAAAAGAGAATCTTCTCTAAAAGGA
CTGTGTCAGTGTGGTCTTACATAAACAGCCAGCTGGAAGACTTCACTAATCCTCTCTATGGGAGCTATTCCAATC
ATGTCTTTATCCAGTAGCCAGCATGCGCCACCTAGAGCTCTGGGTGGGATATTACATAAGGTGGAATCCACGGA
TGAAACCACAGGAACCTATTACACAACAGATACAAAGAACTTCTTGCTAAACGAGCAGAGCTTCAGAAAAAAGTAG
AGGAACTACAGAGAGAGATTTCTAACCGATCAACCTCATCTCAGAGAGAGCCAGCTCTCCTGCACAGTGTGTCA
CTCCTGTCCAAACTGTTGTATTAAGGACTGTAAGATCAGGGGCATCATTGCTATACACTCTTGATTACACTGGCA
GCTCTATGAGTAGAAAGTCTTCGGAATTTAGAACCCTATGAGAGAAAGTTCAGTCACTTTATTTATTTTAA
TCTCTCTAGGATGAGTTTAGAACTGTAGCAGTGCAGGTGGCTTAAGTGAAGTAACTCCATATGTAATTACATGAT
TATGATACTAATCTTTTAAAGTATCCAAAGAATATTTAAATACTTCAATCCTGGATTACAGTGGGAACAAGTTTC
TATTAAGGCAAATGCTGTTACAAATTTTTGGCATCTGGTAATATTTAAACCATTTTGTAGAAATACACTCTGTGC
TCACTGTGCAGAGGAACATCAGTTTTCAAACCAACACTGAAATCTGTGGCATCACATATATTGGGCCTTGATGT
CATGACAGATCAAATCATTGATATCCCTTTCTCCATTCTAGGTTTTCTTTTTTTCAGTAACTGATTTACCTT
GATCACTTTTCAACTTCCATATTCTTTCATATAGTAAAAGGCAAAGTATTGAAGATACTACGGTGTGGTAGTAGTT
GAAAATTATTGCCGTCATTATTTACATACTTAAGACATATTAGCAAGTTGATCCAAAATGGGAGGCCTTATAGAT
GTGCTTGGGGGAAAATGAAGGGGAGAAAGTAGCCATACAGGAGTTCAAAGAATTCCATGCCCTTCAGATTAGCCC
AATTACCAGAAACATCATGAAAGATATTTTAAAACTAATTATTTACTACAGTGTATTTCACTTGTCTTGTGTGT
CTGAACACACAGAAGCTAATTAGCAAGTTTTTAAGAAGTATTTAAAAATCTTACTAGGATTGACATTTTTCTGA
ATTCTGTATAAATAGCTTATAGTGAGAAGTACTGTGCTCAAATTTTACATTTTTTCTTTGCAAATCTGTAAAT
TTCCTCAACGATTAAGTCTACCAAAGAACACACTGCATGTAAAAGATGTATTACAATCTCAAAGCCAGTAAAAG
AAATCTTGCTTCACTGTTACCTGCTACAAGTAAGAGTTTGGTGTGGTAGAAACATTTGACTCTGATGTCTATT
TTATTCTACATAAGAGCCATATGTAATGTACTGTAAACAAAGGAGCTTCTGTCCCTTGGTCTTTTAAATTAAAG
AAATTCCAACTGACTTTTAACTTTGTCTTGTCCAAAGTTGCCATTTCTTTTTTTTCCCAGAAATATTGGAA
ATTATTGGAGGAATATGCACCCAGATGAAAATGTTTCAGTTTGTACCCATTTTCTTTTAAACCAACACCCAAATCA

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FIGURE 671B

AACAATTAAATATACAGTGTTTTTCCACTCACTAATTCCTATAACAGAGAGTCTGAACCTTAGCCTCCCTCTTG
GTCTTGCAGTGAGGAAATTTCTATTAGTATATCCAATTTAGCAAAATTGGTACCAAAATGATTTCTTTGGTAATT
GTGTGAAATATAAGCTTTTTTAACAGGGCATTTAAGTGGCTAGCAAATCAGTAATTAATAAATTAAGCTTTCTACTC
CAAGTATTTACAAATGCATCTGCCATTTTCCTCATTTTAAACCTTGGTTATCTTGGCCTGATACCACATAAAAGA
ATGTAGAATGGCTGAAGAGATCAAGAATTTAAAGCTTCTAGTCTTAACATACTTGCACTCCACTTCAAATTCAAAT
CAAAAGCCAGGGAAATCTAAGTGCAACCCTACCACTTCTCTGCTGAGAACCTTCCAGTGGTTCCCTCACCTTCT
GCAGAAGTCTCCAATATGGAGTACATGCACTTGGGCATTTAATATATACCACTGGTGTGTGTGGGAGGGAGGGAG
GAGGAATACTAGCCCTTTTTATATATTTACACAAGCAAACTTTTAAATATTTGAATTGACAGTTACATGTTTCA
TAACTTCGTATGTCTATTGGTTGTGCAGGTGTAATTTTTTCCCTTTTTGATTAGGGTTACAAAATTTAGAGACCA
GTATGATTAAGTTGAAGCTCCTTAGCCTCCTTCGACCTAGTCTCTGCATACCTCAACTTTTACGTACCAATGCTA
CTCTGCTGTTTACAATTGCCTCATGTAATCTGCAGATTCCCTGCCTCCCCACTTTGGTTCAGTCTGTCTTGTGCAC
CTGGAACAACCTGTTCTCCCTTGTGACTAATTCCCTATTTTCTAGAGTTTAGGCATCATCTCTTCCCTTTGGGAAGTT
ATCTGATTCACGACTGCCTTCTCTGACATCCCCACCTTCCTCTGTGCCCCATAGCACTGTGTATACCGCTACTA
CCACTGCAATTCACATTATATTGGAATGAACAATTCACATGTCTACCACAAGTCTGTAAACATAACCTTATTGTA
AATGAATTGCAATAAAGCTCTGTTACAACGT

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FIGURE 672

METSSSCESLGSQPAAARPPSVDSLSSASTSHSENSVHTKSASVSSDSISTSadNFSPDLRLVRESNKLAEMEE
PPLLPGENIKDMAKDVTYICPFTGAVRGTLTVTNRYLYFKSMERDPPFVLDA SLGVINRVEKIGGASSRGENSYG
LETVC KDIRNLRFAHKPEGRTRRSIFENLMKYAFPVSNNLPLFAFEYKEVFPENGWKLYDPLLEYRRQGIPNESW
RITKINERYELCDTYPALLVVPANIPDEELKRVASFRRGRIPVLSWIHPESQATITRCSQPMVGVSGKRSKEDE
KYLQAIMDSNAQSHKIFIFDARPSVNAVANKAKGGGYESEDAYQNAELVFLDIHNIHVMRESLRKLKEIVYPNIE
ETHWLSNLESTHWLEHIKLILAGALRIADKVESGKTSVVVHCSDGWDRTAQLTSLAMLMLDGYIRTIRGFV LVE
KEWLSFGHRFQLRVGHGDKNHADADRSPVFLQFIDCVWQMTROFPTAFEFNEYFLITILDHLYSCLFGTFLCNSE
QQRGKENLPKRTVSLWSYINSQLEDFTNPLYGSYSNHVLYPVASMRHLELWVGYYIRWNPRMKPQEP IHNRYKEL
LAKRAELQKKVEELQREISNRSTSSSERASSPAQCVPVQTVV

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FIGURE 673A

ACGCGGCGCGGAGGCTGGCCCCGGGACGCGCCCGGAGCCCAGGGGAAGGAGGGAGGAGGGGAGGGTTCGCGGCCGGCC
GCC**ATG**GGGGCCGGGGGGCCCGTGGCCGCCGCCGCCGCCGCTCGCCCGATGTCGCCGCCACCGCCACCGCCACCCGTG
CGGGCGCTGCCCCCTGCTGCTGCTGCTAGCGGGGGCCGGGGGCTGCAGCCCCCCTTGCTGGACGGAAGCCCGTGT
GCAAATGGAGGTCGTTGCACCCAGCTGCCCTCCCGGGAGGCTGCCTGCCTGTGCCCGCCTGGCTGGGTGGGTGAG
CGGTGTGAGCTGGAGGACCCCTGTCACTCAGGCCCCCTGTGCTGGCCGTGGTGTCTGCCAGAGTTCAGTGGTGGCT
GGCACCGCCCGATTCTCATGCCGGTGGCCCCGTGGCTTCCGAGGCCCTGACTGCTCCCTGCCAGATCCCTGCCTC
AGCAGCCCTTGTGCCCACGGTGGCCGTGCTCAGTGGGGCCCGATGGACGCTTCCTCTGCTCCTGCCCACCTGGC
TACCAGGGCCCGCAGCTGCCGAAGCGACGTGGATGAGTGCCGGGTGGGTGAGCCCTGCCGCCATGGTGGCACCTGC
CTCAACACACCTGGCTCCTTCCGCTGCCAGTGTCCAGCTGGCTACACAGGGCCACTATGTGAGAACCCCGCGGTG
CCCTGTGCGCCCTCACCATGCCGTAACGGGGGCACCTGCAGGCAGAGTGGCGACCTCACTTACGACTGTGCCTGT
CTTCTGGGTTTGAGGGTCAGAATTGTGAAGTGAACGTGGACGACTGTCCAGGACACCGATGTCTCAATGGGGGG
ACATGCGTGGATGGCGTCAACACCTATAACTGCCAGTGCCCTCCTGAGTGGACAGGCCAGTTCTGCACGGAGGAC
GTGGATGAGTGTGAGCTGCAGCCCAACGCCTGCCACAATGGGGGTACCTGCTTCAACACGCTGGGTGGCCACAGC
TGCGTGTGTGTCATGGCTGGACAGGTGAGAGCTGCAGTCAGAATATCGATGACTGTGCCACAGCCGTGTGCTTC
CATGGGGCCACCTGCCATGACCGCGTGGCTTCTTTCTACTGTGCCTGCCCCATGGGCAAGACTGGCCTCCTGTGT
CACCTGGATGACGCCTGTGTGAGCAACCCCTGCCACGAGGATGCTATCTGTGACACAAATCCGGTGAACGGCCGG
GCCATTTGCACCTGTCTCCCGGCTTACGGGTGGGGCATGTGACCAGGATGTGGACGAGTGTCTATCGGCGCC
AACCCTGCGAGCACTTGGGCAGGTGCGTGAACACGCAGGGCTCCTTCTGTGCCAGTGCAGTGTGGCTACACT
GGACCTCGCTGTGAGACCGATGTCAACGAGTGTCTGTGCGGGGCCCTGCCGAAACCAGGCCACGTGCCTCGACCGC
ATAGGCCAGTTCACCTGTATCTGTATGGCAGGCTTCACAGGAACCTATTGCGAGGTGGACATTGACGAGTGTGAG
AGTAGCCCCCTGTGTCAACGGTGGGTCTGCAAGGACCGAGTCAATGGCTTCAGCTGCACCTGCCCCCTCGGGCTTC
AGCGGCTCCACGTGTGAGCTGGACGTGGACGAATGCGCCAGCACGCCCTGCAGGAATGGCGCCAAATGCGTGGAC
CAGCCCGATGGCTACGAGTGCCGCTGTGCCGAGGGCTTTGAGGGCACGCTGTGTGATCGCAACGTGGACGACTGC
TCCCCTGACCCATGCCACCATGGTGCCTGCGTGGATGGCATCGCCAGCTTCTCATGTGCCTGTGCTCCTGGCTAC
ACGGGCACACGCTGCGAGAGCCAGGTGGACGAATGCCGCAGCCAGCCCTGCCGCCATGGCGGCAAAATGCCCTAGAC
CTGGTGGACAAGTACCTCTGCCGCTGCCCTTCTGGGACCACAGGTGTGAACTGCGAAGTGAACATTGACGACTGT
GCCAGCAACCCCTGCACCTTTGGAGTCTGCCGTGATGGCATCAACCGCTACGACTGTGTCTGCCAACCTGGCTTC
ACAGGGCCCCCTTTGTAACGTGGAGATCAATGAGTGTGCTTCCAGCCCATGCGGCGAGGGAGGTTCTGTGTGGAT
GGGGAAAAATGGCTTCCGCTGCCTCTGCCCGCCTGGCTCCTTGCCCCACTCTGCCTCCCCCGAGCCATCCCTGT
GCCCATGAGCCCTGCAGTCACGGCATCTGCTATGATGCACCTGGCGGGTTCGCTGTGTGTGTGAGCCTGGCTGG
AGTGGCCCCCGCTGCAGCCAGAGCCTGGCCCCGAGACGCTGTGAGTCCAGCCGTGCAGGGCCGGTGGGACATGC
AGCAGCGATGGAATGGGTTTCCACTGCACCTGCCCCGCTGGTGTCCAGGGACGTGAGTGTGAACTCCTCTCCCC
TGACCCCCGAACCCCTGTGAGCATGGGGGCCGCTGCGAGTCTGCCCTGGCCAGCTGCCTGTCTGCTCCTGCCCC
CAGGGCTGGCAAGGCCACGATGCCAGCAGGATGTGGACGAGTGTGCTGGCCCCGCACCCTGTGGCCCTCATGGT
ATCTGCACCAACCTGGCAGGGAGTTTCACTGCACCTGCCATGGAGGGTACACTGGCCCTTCTGTGATCAGGAC
ATCAATGACTGTGACCCCAACCCATGCCTGAACGGTGGCTCGTGCCAAGACGGCGTGGGCTCCTTTTCTGTCTCC
TGCTTCCCTGGTTTCGCCGGCCCCACGATGCGCCCGGATGTGGATGAGTGCCTGAGCAACCCCTGCGGCCCGGGC
ACCTGTACCGACCACGTGGCCTCCTTACCTGCACCTGCCCCCGGGGTACGGAGGCTTCCACTGCGAACAGGAC
CTGCCCCGACTGCAGCCCCAGCTCCTGCTTCAATGGCGGGACCTGTGTGGACGGCGTGAACCTGTTCACTGCTG
TGCCGTCCCCGGCTACACAGGAGCCCACTGCCAACATGAGGCAGACCCCTGCCTCTCGCGGCCCTGCCTACACGGG
GGCGTCTGCAGCGCCGCCACCCCTGGCTTCCGCTGCACCTGCCTCGAGAGCTTACGGGGCCCGCAGTGCCAGACG
CTGGTGGATTGGTGCAGCGCCAGCCTTGTCAAAACGGGGGTGCTGCGTCCAGACTGGGGCCTATTGCCCTTTGT
CCCCCTGGATGGAGCGGACGCCTCTGTGACATCCGAAGCTTGCCCTGCAGGGAGGCCGAGCCAGATCGGGGTG
CGGCTGGAGCAGCTGTGTGAGCGGGTGGGCAGTGTGTGGATGAAGACAGCTCCCACTACTGCGTGTGCCAGAG
GGCCGTACTGGTAGCCACTGTGAGCAGGAGGTGGACCCCTGCTTGGCCCAGCCCTGCCAGCATGGGGGGACCTGC
CGTGGCTATATGGGGGGCTACATGTGTGAGTGTCTTCTGGCTACAATGGTGATAACTGTGAGGACGACGTGGAC
GAGTGTGCCTCCCAGCCCTGCCAGCACGGGGTTTATGCATTGACCTCGTGGCCCGCTATCTCTGCTCCTGTCCC
CCAGGAACGCTGGGGGTGCTCTGCGAGATTAATGAGGATGACTGCGGCCAGGCCACCGCTGGACTCAGGGCCC

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FIGURE 673B

CGGTGCCTACACAATGGCACCTGCGTGGACCTGGTGGGTGGTTTCCGCTGCACCTGTCCCCCAGGATACACTGGT
TTGCGCTGCGAGGCAGACATCAATGAGTGTGCTCAGGTGCCTGCCACGCGGCACACACCCGGGACTGCCTGCAG
GACCCAGGCGGAGGTTTCCGTTGCCITTTGTTCATGCTGGCTTCTCAGGTCCCTCGCTGTGAGACTGTCTGTCTCCC
TGCGAGTCCCAGCCATGCCAGCATGGAGGCCAGTGCCGTCTAGCCCGGGTCTTGGGGGTGGGCTGACCTTCACC
TGTCAGTGTGCCAGCCGTTTGGGGTCCGCGTTGCGAGCGGGTGGCGCGCTCCTGCCGGGAGCTGCAGTGCCCCG
GTGGGCGTCCCATGCCAGCAGACGCCCCGCGGGCCGCGCTGCGCCTGCCCCCAGGGTTGTGCGGACCCCTCCTGC
CGCAGCTTCCCGGGGTGCGCGCCGGGGGCCAGCAACGCCAGCTGCGCGGCCGCCCCCTGTCTCCACGGGGGCTCC
TGCCGCCCCGCGCCGCTCGCGCCCTTCTTCCGCTGCGCTTGC GCGCAGGGCTGGACCGGGCCGCGCTGCGAGGCG
CCCGCCGCGGCACCCGAGGTCTCGGAGGAGCCGCGGTGCCGCGCGCCGCTGCCAGGCCAAGCGCGGGGACCAG
CGCTGCGACCGCGAGTGCAACAGCCAGGCTGCGGCTGGGACGGCGGGGACTGCTCGCTGAGCGTGGGCGACCCC
TGGCGGCAATGCGAGGCGCTGCAGTGTGGCGCCTCTTCAACAACAGCCGCTGCGACCCCGCCTGCAGCTCGCCC
GCCTGCCTCTACGACAACCTTGACTGCCACGCGCGTGGCCGCGAGCGCACTTGCAACCCGCTGTACGAGAAGTAC
TGCGCCGACCACTTTGCCGACGGCCGCTGCGACAGGGCTGCAACACGGAGGAGTGC GGTGGGATGGGCTGGAT
TGTGCCAGCGAGGTGCCGGCCCTGCTGGCCCGCGGCGTGCTGGTGCTCACAGTGTGCTGCGCGCGGAGGAGCTA
CTGCGTTCCAGCGCCGACTTTCTGCAGCGGCTCAGCGCCATCCTGCGCACCTCGCTGCGCTTCCGCTGGACGCG
CACGGCCAGGCCATGGTCTTCCCTTACCACCGGCCTAGTCTGGCTCCGAACCCCGGGCCCGTGGGAGCTGGCC
CCCGAGGTGATCGGCTCGGTAGTAATGCTGGAGATTGACAACCGGCTCTGCCTGCAGTCGCTGAGAATGATCAC
TGCTTCCCCGATGCCAGAGCGCCGCTGACTACCTGGGAGCGTTGTGTCAGCGGTGGAGCGCCTGGACTTCCCGTAC
CCACTGCGGGACGTGCGGGGGAGCCGCTGGAGCCTCCAGAACCCAGCGTCCCGCTGCTGCCACTGCTAGTGCGG
GGCGCTGTCTTGCTGCTGGTCACTTCTCGTCTGGGTGTGCTGTTGGCCCGGCGCAAGCGCGAGCACAGCACCCCTC
TGTTCCCTGAGGGCTTCTCACTGCACAAGGACGTGGCCTCTGGTACACAAGGGCCGGCGGGAACCCGTGGGCCAG
GACGCGCTGGGCATGAAGAACATGGCCAAGGGTGAGAGCCTGATGGGGGAGGTGGCCACAGACTGGATGGACACA
GAGTGCCAGAGGCCAAGCGGCTAAAGGTAGAGGAGCCAGGCATGGGGGCTGAGGAGGCTGTGGATTGCCGTCAG
TGGACTCAACACCATCTGGTTGCTGCTGACATCCGCGTGGCACCAGCCATGGCACTGACACCACCAGGGGCGAC
GCAGATGCTGATGGCATGGATGTCAATGTGCGTGGCCAGATGGCTTACCCCGCTAATGCTGGCTTCCCTTCTGT
GGGGGGGCTCTGGAGCCAATGCCAACTGAAGAGGATGAGGCAGATGACACATCAGCTAGCATCATCTCCGACCTG
ATCTGCCAGGGGGCTCAGCTTGGGGCACGGACTGACCGTACTGGCGAGACTGCTTTGCACCTGGCTGCCCGTTAT
GCCCCGTGCTGATGCAGCCAAGCGGCTGCTGGATGCTGGGGCAGACACCAATGCCCAGGACCACTCAGGCCGCACT
CCCCTGCACACAGCTGTACAGCCGATGCCCAGGGTGTCTTCCAGATTCTCATCCGAAACCGCTCTACAGACTTG
GATGCCCCGATGGCAGATGGCTCAACGGCACTGATCCTGGCGGCCCGCCTGGCAGTAGAGGGCATGGTGGAAAGAG
CTCATCGCCAGCCATGCTGATGTCAATGCTGTGGATGAGCTTGGGAAATCAGCCTTACACTGGGCTGCGGCTGTG
AACAACGTGGAAGCCACTTTGGCCCTGCTCAAAAATGGAGCCAATAAGGACATGCAGGATAGCAAGGAGGAGACC
CCCCTATTCTTGGCCGCCGCGAGGGCAGCTATGAGGCTGCCAAGCTGCTGTTGGACCACTTTGCCAACCGTGAG
ATCACCGACCACCTGGACAGGCTGCCGCGGGACGTAGCCAGGAGAGACTGCACCAGGACATCGTGCGCTTGCTG
GATCAACCCAGTGGGCCCCGCGAGCCCCCGGTCCCCACGGCCTGGGGCCTCTGCTCTGTCTCTCCAGGGGGCCTTC
CTCCCTGGCCTCAAAGCGGCACAGTCGGGGTCCAAGAAGAGCAGGAGGCCCCCGGGAAGGCGGGGGCTGGGGCCG
CAGGGGGCCCCGGGGGCGGGGCAAGAAGCTGACGCTGGCCTGCCCGGGCCCCCTGGCTGACAGCTCGGTACAGCTG
TCGCCCCGTGGACTCGCTGGACTCCCCGCGGCCTTTTGGGTGGGCCCCCTGCTTCCCTGGTGGCTTCCCCCTTGAG
GGGCCCTATGCAGCTGCCACTGCCACTGCAGTGTCTCTGGCACAGCTTGGTGGCCAGGCGGGGAGGTCTAGGG
CGCCAGCCCCCTGGAGGATGTGTACTCAGCCTGGGCCTGCTGAACCTGTGGCTGTGCCCTCGATTGGGGCCCGG
CTGCCCCCACCTGCCCCCTCAGGCCCCCTCGTTTCTGCTGCCACTGGCGCCGGGACCCCAGCTGCTCAACCCAGGG
ACCCCGCTCTCCCCGAGGAGCGGCCCCCGCCTTACCTGGCAGTCCAGGACATGGCGAGGAGTACCCGGTGGCT
GGGGCACACAGCAGCCCCCAAGGCCCCGCTTCTGCGGGTTCAGTGTGACACCCTTACCTGACCCCATCCCC
GAATCCCCTGAGCACTGGGCCAGCCCCCTACCTCCCTCCCTCTCAGACTGGTCCGAATCCACGCCTAGCCAGCC
ACTGCCACTGGGGCCATGGCCACCACCACTGGGGCACTGCCTGCCAGCCACTTCCCTTGTCTGTTCCAGCTCC
CTTGCTCAGGCCAGACCCAGCTGGGGCCCCAGCCGGAAGTTACCCCAAGAGGCAAGTGTGGCCTGAGACGCT
CGTCAGTTCTTAGATCTTGGGGGCTAAAGAGACCCCCGCTGCTGCTCCTTTCTTTCTGTCTCTTCCCTTCCCTT
T TAGTCTTTTTTCATCCTCTTCTCTTTCCACCAACCCTCCTGCATCCTTGCCTTGACGCTGACCGAGATAGGTCA

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FIGURE 673C

TCAGCCCAGGGCTTCAGTCTTCCTTTATTTATAATGGGTGGGGGCTACCACCCACCCTCTCAGTCTTGTGAAGAG
TCTGGGACCTCCTTCTTCCCACTTCTCTCTTCCCTCATTCCTTTCTCTCTCCTTCTGGCCTCTCATTTCTTTAC
ACTCTGACATGAATGAATTATTATTATTTTCTTTTCTTTTTTTTTTACATTTTGTATAGAAACAAATTCATT
TAAACAAACTTATTATTATTATTTTACAAAATATATATATGGAGATGCTCCCTCCCCCTGTGAACCCCCCAGT
GCCCCCGTGGGGCTGAGTCTGTGGGCCCATTCGGCCAAGCTGGATTCTGTGTACCTAGTACACAGGCATGACTGG
GATCCCGTGTACCGAGTACACGACCCAGGTATGTACCAAGTAGGCACCCTTGGGCGCACCCACTGGGGCCAGGGG
TCGGGGGAGTGTGGGAGCCTCCTCCCCACCCACCTCCCTCACTTCACTGCATTCCAGATTGGACATGTTCCAT
AGCCTTGCTGGGGAAGGGCCCACTGCCAACTCCCTCTGCCCCAGCCCCACCCTTGGCCATCTCCCTTTGGGAACT
AGGGGGCTGCTGGTGGGAAATGGGAGCCAGGGCAGATGTATGCATTCCTTTATGTCCCTGTAAATGTGGGACTAC
AAGAAGAGGAGCTGCCTGAGTGGTACTTTCTCTTCCCTGGTAATCCTCTGGCCCAGCCTTATGGCAGAATAGAGGT
ATTTTTAGGCTATTTTTGTAATATGGCTTCTGGTCAAAATCCCTGTGTAGCTGAATTCCCAAGCCCTGCATTGTA
CAGCCCCCACTCCCTCACCACCTAATAAAGGAATAGTTAACACTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 674

MGPGARGRRRRRRPMSPPPPPPPVRALPLLLLLLAGPGAAAPCLDGSPCANGGRCTQLPSREAACLCPPGWVGER
CQLEDPCHSGPCAGRGVCQSSVVAGTARFSCRCPRGFRGPDCLSLDPCLSSPCAHGARCSVGPDGRFLCSCPPGY
QGRSCRSDVDECRVGEPCRHGGTCLNTPGSFRCQCPAGYTGPLCENPAVPCAPSPCRNGGTCTRQSGDLTYDCACL
PGFEGQNCEVNVDDCPGHRCLNNGGTCVDGVNTYNCQCPPEWTGQFCTEDVDECQLQPNACHNGGTCTFNLTGGHSC
VCVNGWTGESCSQNIDDCATAVCFHGATCHDRVASFYCACPMGKTGLLCHLDDACVSNPCHEDAICDTNPVNGRA
ICTCPPGFTGGACDQDVDECSIGANPCEHLGRCVNTQGSFLCQCGRGYTGPRCETDVNECLSGPCRNOATCLDRI
GQFTCICMAGFTGTyceVDIDECQSSPCVNGGVCKDRVNGFSCTCPSGFSGSTCQLDVDECASTPCRNGAKCVDQ
PDGYECRCAEGFEGTLCDRNVDCCSPDPCHHGRCVDGIASFSCACAPGYTGTRCESQVDECRSQPCRHHGKCLDL
VDKYLRCRPSGTTGVNCEVNIDDCASNPFCTGVCRDGINRYDCVCQPGFTGPLCNVEINECASSPCGEGGSCVDG
ENGFRCLCPPGSLPPLCLPPSHPCAHEPCSHGICYDAPGGFRCVCEPGWSGPRCSQSLARDACESQPCRAGGTCS
SDGMGFHCTCPPGVQGRQCELLSPCTPNPCEHGGRCESAPGQLPVCSCPQGWQGPCQDQVDECAAGPAPCGPHGI
CTNLAGSFSTCHGGYTGPSCDQDINDCDPNPCLNNGGSCQDGVGSFSCSCLPGFAGPRCARDVDECLSNPCGPGT
CTDHVASFTCTCPPGYGGFHCEQDLPDCCSPSSCFNNGGTCVDGVNSFSCLCRPGYTGAHCQHEADPCLSRPCLHGG
VCSAAHPGFRCTCLESFTGPPQCQTLVDWCSRQPCQNGGRCVQTGAYCLCPPGWSGRLCDIRSLPCREAAAQIGVR
LEQLCQAGGQCVDDESSHYCVCPEGRTGSHCEQEVDPCLAQPCQHGGTCRGYMGGYMCECLPGYNGDNCEDDVDE
CASQPCQHGGSCIDLVARVLCSCPPGTLGVLCEINEDDCGPGPPLDSGPRCLHNGTCVDLVGGFRCTCPPGYTGL
RCEADINECRSGACHAAHTRDCLQDPGGGFRLCHAGFSGPRCQTVLSPCESQPCQHGGQCRPSPPGGGLTFTC
HCAQFFWGPRCERVARSRELQCPVGVPCCQTPRGPRCACPPGLSGPSCRSPGSPPGASNASCAAAPCLHGGSC
RPAPLAPFFRCACAQGWGTGPRCEAPAAAEVSEEPRCPRACQAKRGDQRCDRECNSPGCGWDGGDCSLSVGDPW
RQCEALQCWRLFNNRCDPACSSPACLYDNFDCHAGGREERTCNPVYEKYCADHFADGRCDQGCNTEECGWDGLDC
ASEVPALLARGVLVLTVLLPPEELLRSSADFLQRLSAILRTSLRFLDAHGQAMVFPYHRPSPGSEPRARRELAP
EVIGSVVMLEIDNRLCLQSPENDHCFPDAQSAADYLGALSAVERLDFFYPLRDVRGEPELEPEPSVPLLPVLLVAG
AVLLLVIILVLGVMVARRKREHSTLWFPEGFSLHKDVASGHKGRREPVGQDALGMKNMAKGESLMGEVATDWMDE
CPEAKRLKVEEPMGAEEAVDCRQWTQHHLVAADIRVAPAMALTPPQGDADADGMDVNVRGPDGFTPLMLASF
CGGALEPMPTEEDEADDTASIIISDLICQGAQLGARTDRTGETALHLAARYARADAAKRLLDAGADTNAQDHSGRTP
LHTAVTADAQGVFQILIRNRSTDLDARMADGSTALILAAARLAVEGMVEELIASHADVNAVDELGKSALHWAAVN
NVEATLALLKNGANKDMQDSKEETPLFLAAREGSYEAALLLDHFANREI

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FIGURE 675

AGGAAATGGTTTCTGGAAAACGTTAGTAAGGTCAGTTTTTAAACACTGAATCCAAGGTTGTCTTCTGGAATATCC
AAATTGGTTATGACCAGAATGTGATTCAATTATACTAAGCTAAAGGAATAGATTAAAGAATTAGCAACAGTGGCCG
GGTGCAGTGGCTCATGCCGTGTAACCCAGCACTTTGGGGGAGGCCAGGTGGGTGGATCATTTGAGGTCAGGAGT
TTGAGACCAGCTGGCCAACATGGTGAAACCTAAAAATACAAAAATTAGCCAGGTGTGGTGGCAGGTGCTTGTA
TCCCAGCTGCTTGGGAGGCTGAAGCAGGAGAATTGCTTGAACCCGAGGCAGGGGTTGCAGTGAGCCAAGATCAC
ACCATTGCACTCCAGCCTGGGTGGCAGAGTGAGACTCTGTCTCAAAAATTAAAAAGCAACAGTGTATATGCAATA
GTTGCAAGATGTAAGATCACCCAAAGAGTATGCAGAGGGAAATGAGGGACAGAACCCAGAAATATTAATACCCAG
GGAGTGAACAGGAGGAGGACCCCAAGAAGTTACTGAGTCAGATTTTTCCCACTCATCCAGGTGAAAGTTTAGGTC
AATAATGTGAAATACCAGAGGGATTAAATGTCTACAGAAATAAAACCATGTCTCACATTAAGACAAACAAGTAGG
TTGGAGGGATATTTTGAAAGGCAAGGTGATATTAACTTTATTCTGAAAGTAGTTTGTAGAGAAAGAGGCATGA
TAAGAGTTGCAGTTAACTGATTGAAACTATGCAGCAGATGAAACTGGAATAAAGGAAACTCATCAGGAAATGAT
TATAGTAATAAGGGCCAGAAATAAGGGCTTGCTTGCTGAACTAAAAACAAAGAGGATACAAAGGTTCTAGAAAT
ATTTCAAAGGAATTAGCTTTAATTCAGCAATACTCATTGAGAATCACCTATGCACCTGGCTCTGAAGATGAAGTG
CTGAGTAAACTTAGACATGGACCCTGCTATCATGGAGATGGCAGATTATTGGTCAGAATGCTCTTACCTGTCATT
GTAGCAATTTTGTAGATCCTTAATACCTCTGAATTGCTAATAAACTTGTTTTGGCTGAAAAAATAGTCCTGTGA
ATTTTACCATGCAGTTAAATAAGAACTAAAAAGCAAACTAAATACCACCAAAAAGGTTAGTAGTCTGTTATATG
CATTAGCCTTAATCTAAGGAAATATTTTATTATAGGTCTCCTTGAAGAAAATGATATTTTCAGGAATGCTCAAGC
AGGTGTTCTCATCAGCACTAATAGTCATCCAATCTTAAGGAAAAACAGAATATTTGATGGATTTGCCGCAGGTAT
TGAAATTACAAATCACGCAACTGCAACACTAGAAGGCAATCAGATTTTTAACAACCGGTTTGGAGGCTTATTTTT
AGCATCTGGTGTTAATGTGACAATGAAAGATAACAAAATAATGAACAATCAAGATGCCATAGAAAAGGCTGTTAG
TAGAGGCCAATGTTTATATAAAATATCAAGTTTATACCAGCTATCCCATGCATGATTTCTACAGATGTCATACTTG
TAACACCACAGATCGAAATGCCATATGTGTGAACTGCATTAAGAAGTGCCATCAGGGACATGATGTAGAGTTTAT
TAGACATGATAGGTATGTAGCACACTTGCTTGATATATTACCCAATTACTTTCCCCCTCACTTTTCTAATATTTG
GGTTTCATTTTGCTTTAGGTTTTTCTGTGACTGTGGTGCTGGAACACTGTCTAATCCTTGACATTAGCTGGTGA
GCCTACACATGATACAGATACACTATATGACTCTGCTCCACCTATAGAATCTAATACATTGCAGCACAACTGAAT
TCCTTCCCTAAAGAAAAAGTCCTGCCATTGTAACATCATAACTTAAACACTTTTTTGGGAAGAAGATTTAAAATA
TTTGCCCATGCTACAGGAAGAGACTGTATTAAAAATGGATACACAAGGTCAGTTGACACTATGAAGCTCAAGCTA
CCAAAAAGAAAGTGGCAATATATTGACTCAGGATCTCAAAGCTGGGTGTTTTAGCATTACTGTGTAAAGACTTGA
AGGGACAGAAGTGAAGAAAATAAGCTGCAATTTGTACAGATACCAACTCTGAAAAGCTGGTGTTTTTACAAC
AGCATTGAATGCAGTCCAATTTGCAGTAGTAATCTTCAATAGACAAGCAGCTTTGTTGCTGCCTTTATGGACATG
GGTACCAATTGCTTTTGTAAATATGGTAAAAATGTGAGCTAGCACTTCTGCGTTCCCTTTTGATTTTTTTTTTAA
CATGTATTCAGATTGAGAAATATGATTTTAAATGCCTTAATCTCATGTAGTTTGTTTTTAATTTCAAGCAAAATCT
TACTGTACTTGAATGTGCCCTGTTTTGTAGCACACCTAGACTTGCTGTAAGTGTACTCATGTCCCAGTATGTAC
GTTCTTTCTATGAAAGAGAAAACACTAATCTTAAATTTATATCCAGCAATGTTTCTGGTATCCTTTAAGAAAAGTT
AAGACTATTATTTCCCTCCCTTCCCTGTGCAGCATTCAAAAATCACCCCTAGAAAAAGTGAGTGTTTTAAATGAGA
CTTCCTAGGAAGGGATGCACTGTAAACAAAAAGTATTCTTGTAACCTCAGTTTTGTGAAAGGTAAAAAACTACTAT
GTTTTAAGTACACTTTAGAAAGTCTCTTCAAAACAAAACAGTCCTGTATTGAACTCTGTTTCATAGTTTTTTTTTG
AACAGTTTGTAGACAAAACCTGTTGGAAATTAAACCAATTTCCCTGCATTAAGCTGAGACAAGTATATAAACAGCCCTA
TACAGTTTCATAGCTTTTCCCTCCCCATTTATGTGTATTGGTGACAGTGGGTATAAACAGCCTGAAAAGTGTATG
CATGTACCATAACATTTAGACTTAATATATTGTGGAGTATTCAATAACCATTATGTAGAAGGTAGATAAGAATTA
AAAGGGTTTAAATTTCCCTAGAAAGAAAATGGAAAAATGGTCATTTTTTAAAAAATAAAGTTTATTAGATCATAATGT
TGTCTGAATTTACCACCTTTGTGAGAAGTCAACTCAAAGCTTCCAATGTAGTCAGTCTATAATTCCTTAATCAAA
GTCAGCAATTTATGGACAGCTTCAGCATTTACAGTTGACCTTTCACTAGCCAGGCAAACTTCCCTTAAATTTAAA
AA

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FIGURE 676

MKDNKIMNNQDAIEKAVSRGQCLYKISSYTSYPMHDFYRCHTCNTTDRNAICVNCIKKCHQGHDVEFIRHdryVA
HLLDILPNYFPPHFSNIWVSFCFRFFCDGAGTILSNPCTLAGEPTHDTDTLYDSAPPIESNTLQHN

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FIGURE 677

GAATTTCGCTCGATGGCGTTTATCCGGAAGAAGCAGCAGGAGCAGCAGCTGCAGCTCTACTCCAAGGAGAGATTT
TCCTTGCTGCTGCTTAACCTGGAGGAGTACTACTTTGAACAGCATAGAGCCAATCACATTTTGCACAAGGGCAGT
CACCATGAAAGGAAAATCAGAGGCTCCTTAAAAATATGTTCAAAATCGGTGATTTTTGAACCAGATTCAATATCC
CAGCCCATCATCAAGATTCTTTGAGAGACTGTATAAAAAATAGGAAAGCATGGAGAAAATGGAGCCAATAGACAC
TTCACAAAGGCAAAATCTGGGGGTATTTCACTCATTTCAGTCAGGTATATTTTATTAAAGAACATAATGTTGTT
GCACCATATAAAATAGAAAGGGGCAAAATGGAATATGTTTTTGAATTGGATGTTCCCGGGAAAGTGGAAGATGTT
GTGGAGACGTTGCTTCAGCTTCACAGAGCATCCTGCCTTGACAAATTGGGTGACCAAACCGCCATGATAACAGCT
ATTTTGCAGTCTCGTTTAGCTAGAACATCATTGACAAAAACAGGTTCCAAAACATTTCTGAAAAGCTGCACATG
GAATGCAAAGCAGAAATGGTGACGCCTCTGGTGACTAATCCTGGACACGTGTGCATCACGGACACAAACCTGTAT
TTTCAGCCCCCTCAACGGCTACCCGAAACCTGTGGTCCAGATAACACTCCAAGATGTCCGCCGATCTACAAAAGG
AGGCACGGCCTCATGCCTCTGGGCTTGGAAGTATTTTGCACAGAAGATGATCTGTGTTCCGACATCTACCTAAAG
TTCTATGAACCTCAAGATAGAGATGATCTCTATTTTTTACATTGCCACATACCTAGAGCACCATGTGGCGGAGCAC
ACTGCTGAGAGCTACATGCTGCAGTGGCAGCGTGGACACCTTTCCAACATCAGTACCTCCTTCACCTCAACAAC
CTGGCCGACCGCAGCTGCAACGACCTCTCCCAGTACCCTGTGTTTCCATGGATAATACATGATTATTCCAGCTCA
GAACTAGATTTGTCAAATCCAGGAACCTTCCGGGATCTCAGTAAGCCAGTAGGGGCCCTAAATAAGGAACGGCTG
GAGAGACTACTGACACGCTACCAGGAAATGCCTGAACCAAAGTTCATGTATGGGAGTCACTACTCTTCCCCGGGT
TATGTACTTTTTTATCTTGTTAGGATTGCACCAGAGTATATGCTGTGCCTGCAGAATGGAAGATTTGATAATGCA
GATAGAATGTTCAACAGTATTGCAGAACTTGGAAAACTGTCTGGATGGTGCAACGGATTTTAAAGAGTTAATT
CCAGAATTCTATGGTGATGATGTGAGCTTTCTAGTCAATAGCCTGAAGTTGGATTTGGGAAAGAGACAAGGAGGA
CAGATGTTGACGACGTGGAGCTTCCCCCTTGGGCTTCCAGTCCCGAGGACTTTCTCCAGAAGAGCAAAAGATGCA
TTGGAAAGCAATTATGTGTCTGAACACCTTCACGAGTGGATTGATCTAATATTTGGCTACAAACAAAAAGGGAGT
GATGCAGTTGGGGCCCATAAATGTATTTTATCCCTGACCTATGAAGGAGGTGTAGACTTGAACAGCATCCAGGAT
CCTGATGAGAAGGTAGCCATGCTTACGCAAACTTGGAAATTTGGGCAGACACCAAAACAACATTTTGTGACACCA
CATCCTCGAAGGATCACCCCAAAGTTTAAAAGTTTGTCCAGACCTCCAGTTATAATGCTTCTATGGCAGATTCC
CCAGGTGAAGAGTCTTTTGAAGACCTGACCGAAGAAAGCAAAACACTGGCCTGGAATAACATCACCAAACCTGCAG
TTACACGAGCACTATAAAATCCACAAAGAAGCAGTTACTGGAATCACGGTCTCTCGCAATGGATCTTCAGTATTC
ACAACATCCCAAGATTCCACCTTGAAGATGTTTTCTAAAGAATCAAAAATGCTACAAAGAAGTATATCATTTTCA
AATATGGCTTTATCGTCTTGTTTACTTTTACCAGGAGATGCCACTGTCTATAACTTCTTCATGGGATAATAATGTC
TATTTTTATTCCATAGCATTGGAAGACGCCAGGACACGTTAATGGGACATGATGATGCTGTTAGTAAGATCTGT
TGGCATGACAACAGGCTATATTCTGCATCGTGGGACTCTACAGTGAAGGTGTGGTCTGGTGTTCCTGCAGAGATG
CCAGGCACCAAAAGACACCACTTTGACTTGCTGGCCGAGCTGGAACATGATGTGAGTGTAGATACAATCAGTTTA
AATGCTGCAAGCACACTGTTAGTTTCCGGCACCAAAAGAGGCACAGTGAATATTTGGGACCTCACAACGGCCACC
TTAATGCACCAGATTCCATGCCATTGAGGATTGTATGTGACACTGCTTTTAGCCCAGATAGTCGCCATGTCCTC
AGCACAGGAACAGATGGCTGTCTTAATGTCTATTGATGTGACAGAGGAATGCTCATCTCCTCCATGACATCAGAT
GAGCCCCAGACGTGCTTTGTCTGGGATGGAAATTCGTTTTATCTGGCAGTCAGTCTGGTGAAGTGTCTCGTTTGG
GACCTCCTTGGAGCAAAATCAGTGAGAGAATACAGGGGCCACACAGGTGCTGTGACATGTATATGGATGAATGAA
CAGTGTAGCAGTATCATCACAGGAGGGGAAGACAGACAAATTATATTCTGGAAATTGCAGTATTAAGTGCCTTTT
CCTCTCCTGAATATTAAATTGAACTCTATTTAATGCATTTTTTAAACCAAACCTTTTAAACGGACTGGTGAATGTGC
AATGTTAGTAATTAGAAGTTTTTACCACATGGAAAAATTTGTGGTTTTTAAACTTTCTAAATCATGGTGAATTCATTG
AAAGCCATTAGTTGCCATTCTCTTAGGGCAGATAAAAAATGCGGCTGTGTTAGGAAAAACATGTTACACTGTAAGGC
AGATGATCGTCCCCGTATGATGATTGTGAGAAGACAGGACTAAGTAGCAGAGAATAGCTAAGAGATAAAATGGGC
TGGGGAACCTTGTGAGAAAGCACTGAACAATTAAGAAATTTTCCAAGAAAATGTGCAGTATTCTCTGCTACTTCT
GAATCTGTTTTGTCTTCTAATCTATCACAATTGCCACCCATCGGGTTTTGGGTGTGTGTTTTCATAGCGTGGTT
ACTTTCTATAATGCTGTACCCAGATTCTAAGAACCTGGAGAAGGATTAGCAGTTCTTAGTAAGTTTACTGTGTAT
AGGAACGGTTTGTATTTTATTACAGCTATTTCATCTTTTCTACATTAAAAATATTTTTTCTCTAAAAA
AAAAA

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FIGURE 678

MAFIRKKQQEQQLQLYSKERFSLLLLNLEYYFEQHRANHILHKGSHHERKIRGSLKICSKSVIFEPDSISQPII
KIPLRDCIKIGKHGENANRHFTKAKSGGISLIFSQVYFIKEHNVVAPYKIERGKMEYVFELDVPGKVEDVETL
LQLHRASCLDKLGDQTAMITAILQSRLARTSF'DKNRFQNISEKLHMECKAEMVTPLVTNPGHVCITDTNLYFQPL
NGYPKPVVQITLQDVRRIYKRRHGLMPLGLEVFCTEDDLCSDIYLFYEPQDRDDLYFYIATYLEHHVAEHTAES
YMLQWQRGHLSNYQYLLHLNNLADRSCNDLSQYPVFPWIIHDYSSSELDLSNPGTFRDLSKPVGALNKERLERLL
TRYQEMPEPKFMYGSHYSSPGYVLFYLVRIAPEYMLCLQNGRFDNADRMFNSIAETWKNCLDGATDFKELIPEFY
GDDVSFLVNSLKLDLGKRQGGQMVDDELPPWASSPEDFLQKSKDALESNYVSEHLHEWIDLIFGYKQKGSDAVG
AHNVFHPLTYEGGVDLNSIQDPDEKVAMLTQILEFGQTPKQLFVTPHPRITPKFKSLSQTSYNASMADSPGEE
SFEDLTEESKTLAWNNTKLQLHEHYKIHKEAVTGITVSRNGSSVFTTSQDSTLKMFSKESKMLQRSISFSNMAL
SSCLLLPGDATVITSSWDNNVYFYSIAFGRRQDTLMGHDDAVSKICWHDNRLYSASWDSTVKVWSGVPAEMPGTK
RHHFDLLAELEHDVSDTISLNAASTLLVSGTKEGTVNIWDLTTATLMHQIPCHSGIVCDTAFSPDSRHVLSTGT
DGCLNVIDVQTGMLISSMTSDEPQTCFVWDGNSVLSGSQSGELLVWDLGAKISERIQGHTGAVTCIWMNEQCSS
IITGGEDRQIIFWKLO Y

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FIGURE 679

ACTTCCCCCGGCTCCAGCCGGCGCAGGCAGCGGGCGGCAGCAGGCGAGCCTCGGCCCCGCAAGGCCATGAAAGG
TGAAGAAGGGCGGCGGTGGGGCCGGGACGGCGACGGAGTCCGCTCCGGGGCCCTCGGGCCAGAGCGTGGCCCCCA
TACCACAGCCGCCTGCGGAATCCGAATCTGGGTCCGAGTCGGAGCCGGACGCAGGCCCAGGGCCCAGGCCGGGGC
CGCTGCAGAGGAAGCAGCCGATCGGGCCGGAGGACGTGCTGGGGCTGCAGCGGATCACCGGTGACTACCTCTGCT
CCCCTGAGGAGAATATCTACAAGATCGACTTTGTCAGGTTTAAGATTCTGGGACATGGACTCAGGCACTGTCTCT
TTGAAATCAAGAAGCCCCCAGTCTCAGAACGGTTGCCCATCAACCGGCGGGACCTGGACCCCAATGCTGGGCGCT
TTGTCCGCTACCAGTTCACGCCTGCCTTCCTCCGCTGAGGCAGGTGGGAGCCACGGTGGAGTTCACAGTGGGAG
ACAAGCCTGTCAACAACCTCCGCATGATCGAGAGGCACTACTTCCGCAACCAGCTACTCAAAGCTTCGACTTCC
ACTTTGGCTTCTGCATCCCCAGCAGCAAGAACACCTGCGAGCACATTTACGACTTCCCCCTCTCTCCGAGGAGC
TGATCAGCGAGATGATCCGCCACCCGTATGAGACCCAGTCTGACAGCTTCTACTTCGTGGATGACCGGCTGGTGA
TGCACAATAAAGCAGACTATTCTACAGCGGGACACCCTGACCCCCACGGCTGCCCTGACCCCAGGAGGCTCCAGT
TCTGGGCTGGGAGCTGTGACCTCCCCAACGCTCACCCCTCAACCCCAAGTCCTCTGCTTGGGGAGTTCTCCAGGA
GCTCCGGACCCCTGAGTCAATGTTGGGAGGAAGGGTACCTGGTGTCCCCAGTCAAGCCCATGAAGCCCATGCGGCC
TGCTACATGGGGTGGGGTTCGTAGGGAGGCTGTTTGCCCTCCACGTCTAGGAAGGCCTGTGAGAGGAGCAGTCAGGA
CTTCCGGACAACCTTAGCTGGGCCCTACTTGGGCCCAAGTTTCAGAATAGTGTTCCCCTATCAAGGCTGTGACTAG
ATCAGGCAGGGATCCATTCCCTGTCCCCTGCCCCTACCTTCAGGCCATTTAGAGTTGTAAATTTACAAAGATCC
ACGGTGGGCTCCAGCTGCCAAGCCACCCAAGGGAGTCTGGGCCCTAGGCCTAGCCCCATCCCTCCCCATGAGGGG
CCAAGACACTGCCTAAGGTGTGGGAGGGACTGGCTGAGATTGCAGCCCATGGTAGGAGCTGGACCAACTGTATAT
AGTTTTCAATAAACTTTTTCTTTCTGTTCAAAAAAAAAAAAAA

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FIGURE 680

MKVKKGGGGAGTATESAPGPSQSVAPIPQPPAESESGSESEPDAGPGPRPGPLQRKQPIGPEDVLGLQRITGDY
LCSPEENIYKIDFVREFKIRDMDSGTVLFEIKKPPVSERLPINRRDLDPNAGRFVRYQFTPAFLRLRQVGATVEFT
VGDKPVNNFRMIERHYFRNQLLKSFDFHFGFCIPSSKNTCEHIYDFPPLSEELISEMIRHPYETQSDSFYFVDDR
LVMH NKADYSYSGTP

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FIGURE 681

ATGGCGACTGCGACCCCCGTGCCGCCGCGGATGGGCAGCCGCGCTGGCGGCCCCACCACGCCGCTGAGCCCCACG
CGCCTGTGCGGGCTCCAGGAGAAGGAGGAGCTGCGCGAGCTCAATGACCGGCTGGCGGTGTACATCGACAAGGTG
CGCAGCCTGGAGACGGGAGAACAGCGCGCTGCAGCTGCAGGTGACGGAGCGCGAGGAGGTGCGCGGCCGTGAGCTC
ACCGGCCTCAAGGCGCTCTACGAGACCGAGCTGGCCGACGCGCGACGCGCTCGACGACACGGCCCGCGAGCGC
GCCAAGCTGCAGATCGAGCTGGGCAAGTGCAAGGCGGAACACGACCAGCTGCTCCTCAACTATGCTAAGAAGGAA
TCTGATCTTAATGGCGCCCAGATCAAGCTTCGAGAATATGAAGCAGCACTGAATTCGAAAGATGCAGCTCTTGCT
ACTGCACTTGGTGACAAAAAAGTTTAGAGGGAGATTTGGAGGATCTGAAGGATCAGATTGCCAGTTGGAAGCC
TCCTTAGCTGCAGCCAAAAACAGTTAGCAGATGAACTTTACTTAAAGTAGATTTGGAGAATCGTTGTCAGAGC
CTTACTGAGGACTTGGAGTTTCGCAAAAGCATGTATGAAGAGGAGATTAACGAGACCAGAAGGAAGCATGAAACG
CGCTTGGTAGAGGTGGATTCTGGGCGTCAAATTGAGTATGAGTACAAGCTGGCGCAAGCCCTTCATGAGATGAGA
GAGCAACATGATGCCCAAGTGAGGCTGTATAAGGAGGAGCTGGAGCAGACTTACCATGCCAACTTGAGAATGCC
AGACTGTCATCAGAGATGAATACTTCTACTGTCAACAGTGCCAGGGAAGAAGTATGGAAGCCGCATGAGAATT
GAGAGCCTTTTCATCCAGCTTTCTAATCTACAGAAAGAGTCTAGAGCATGTTTGGAAGGATTCAAGAATTAGAG
GACTTGCTTGCTAAAGAAAAAGACAACCTCTCGTCGCATGCTGACAGACAAAGAGAGAGAGATGGCGGAAATAAGG
GATCAAATGCAGCAACAGCTGAATGACTATGAACAGCTTCTTGATGTAAAGTTAGCCCTGGACATGGAAATCAGT
GCTTACAGGAACTCTTAGAAGGCGAAGAAGAGAGGTTGAAGCTGTCTCCAAGCCCTTCTTCCCGTGTGACAGTA
TCCCGAGCATCCTCAAGTCGTAGTGACGTACAACAGGAAAGCGGAAGAGGGTTGATGTGGAAGAATCAGAG
GCGAGTAGTAGTGTTAGCATCTCTCATTCCGCTCAGCCACTGGAAATGTTTGTCATCGAAGAAATTGATGTTGAT
GGGAAATTTATCCGCTTGAAGAACACTTCTGAACAGGATCAACCAATGGGAGGCTGGGAGATGATCAGAAAAATT
GGAGACACATCAGTCAGTTATAAATATACCTCAAGATATGTGCTGAAGGCAGGCCAGACTGTTACAATTTGGGCT
GCAAACGCTGGTGTACAGCCAGCCCCCACTGACCTCATCTGGAAGAACCAGAAGTCTGTTGGGCACTGGCGAA
GATGTGAAGGTTATATTGAAAAATTCTCAGGGAGAGGAGGTTGCTCAAAGAAGTACAGTCTTTAAAACAACCATA
CCTGAAGAAGAGGAGGAGGAGGAAGAAGCAGCTGGAGTGGTTGTTGAGGAAGAAGTCTTCCACCAGCAGGGAACC
CCAAGAGCATCCAATAGAAGCTGTGCAATTATGTAAAATTTTCAACTGTCTTCTCAAATAAAGAAGTATGGTA
ATCTTTACCTGTATACAGTGCAGAGCCTTCTCAGAAGCACAGAATATTTTTATATTTCTTTATGTGAATTTTTA
AGCTGCAAATCTGATGGCCTTAATTTCTTTTTTGACACTGAAAGTTTTGTAAAAGAAATCATGTCCATACACTTT
GTTGCAAGATGTGAATTATTGACACTGAACTTAATACTGTGTACTGTTTCGGAAGGGGTTCTCAAATTTTTTG
CTTTTTTGTATGTGTGTTTTTCTTTTTTTTAAAGTTCTTATGAGGAGGGGAGGGTAAATAAACCACTGTGCGT
CTTGGTGTAAATTTGAAGATTGCCCCATCTAGACTAGCAATCTCTTCATTATTCTCTGCTATATATAAACGGTGC
TGTGAGGGAGGGGAAAAGCATTTTTCAATATATTGAACTTTGTACTGAATTTTTTGTAAATAAGCAATCAAGGT
TATAATTTTTTTTAAATAGAAATTTTGTAAAGGCAATATTAACCTAATCACCATGTAAGCACTCTGGATGAT
GGATTCCACAAAACCTGGTTTTATGGTTACTTCTCTCTTAGATTCTTAATTCATGAGGAGGGTGGGGGAGGGAG
GTGGAGGGAGGGGAAGGGTTTCTCTATTAATAATGCATTCGTTGTGTTTTTAAAGATAGTGTAACCTTGCTTAAATTT
CTTATGTGACATTAAACAATAAAAAAGCTCTTTT

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FIGURE 682

MATATPVPPRMGSRAGGPTTPLSPTRL SRLQEKEELREINDRLAVYIDKVRSL ETENSALQLQVTEREEVVRGREL
TGLKALYETELADARRALDDTARERAKLQIELGKCKAEHDQLLLN YAKKESDLNGAQIKLREYEAALNSKDAALA
TALGDKKSLEGDLEDLKDQIAQLEASLAAAKQLADETL LKVDLENRCQSLTEDLEFRKSMYEEEINETRRKHET
RLVEVDSGRQIEY EYKLAQALHEMREQHDAQVRLYKEELEQTYHAKLENARLSSEMNTSTVNSAREELMESRMRI
ESLSSQLSNLQKESRACLERIQELEDLLAKEKDNSRRMLTDKEREMAEIRDQMQQQLNDYEQLLDVKLALDMEIS
AYRKLEGE EERLKLSPSPSSRVTVSRASSRSVRTRGKRKRVDVEESEASSSVSISHSASATGNVCIEEIDVD
GKFIRLKNTSEQDQPMGGWEMIRKIGDTSVSYKYTSRYVLKAGQTVTIWAANAGVTASPTD LIWKNQNSWGTGE
DVKVILKNSQGEEVAQRSTVFKTTIPEEEEEEEEAAGVVVEEELFHQQGTPRASNRSCAIM

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FIGURE 683A

GGTGAATGGGCTGGTGGTGCTCGCTGCTGCTGCTGAGAGGAGGAGGAGGATGAAGAGTTGGGCTTGTTTGTCTCC
TCCTCCTCCTGCTTCCCCTGCTCAGAGTTCCTGCCTCCAGCTGCCAGGGGGGACAGCCAGCCAGCAGCAGGAGGG
GGGCTAGAGAGCTGAAGGAGAGCCAGTTTCCCCAAAATTGGACTTCTCAGAACCTTTAATATGCTAATGTGCATT
GTGAATCTCCAAGAGGGGGATATGATATGCAGCATTCTTGAATACTTCTAATGACAGGGAGCCCACTACCTCATA
AGCTGCAGTGAGAAGAGGAGTTTGTACTTTAAACAGAGGCTGAAGAACTATAGAATTAGCAGAGAAAGTGGAG
AAGGTAGAGGATCGAGTTGCAGACTCTACAGGAGGCTCTTAAAGTGGAAATTCAGGTTACCAGAACTGGTTGC
TCAAATGAAGCAGGATCCACAGAATGCTGACTTAAAGAAACAGCTTCATGAACTCCAAGCCAAAATCACAGCTTT
GAGTGAGAAACAGAAAAGAGTAGTTGAACAGCTACGGAAGAACCTGATAGTAAAGCAAGAACAACCGGACAAGTT
CCAAATACAGCCATTGCCACAATCTGAAAACAACTACAAACAGCACAGCAGCAACCACTACAGCAACTACAACA
ACAGCAGCAGTACCACCACCACCACGCCAGCAGTCAGCTGCAGCCTCTCCCAACCTGACTGCTTCACAGAAGAC
TGTAACCTACAGCTTCTATGATTACCACAAAGACACTACCTCTCGTCTTGAAAGCAGCAACTGCGACCATGCCTGC
CTCTGTGGTGGGCCAGAGACCTACCATTGCTATGGTGACCGCCATCAACAGTCAGAAGGCTGTGCTCAGCACTGA
TGTGCAGAAACACACCAGTCAACCTCCAGACGTTAGTAAGGTCAGTGGGCTGGGGCAGAGGCTGTCCAAATTGT
GGCAAAAAACACAGTCACTCTGCAGGTTTCCAGCAACACCTCCTCAGCCCATCAAAGTACCACAGTTTATCCCCC
TCCTAGACTCACTCCACGTCCAACTTTCTTCCACAGGTTTCGACCCAAGCCTGTGGCCAGAATAACATTCTAT
TGCCCCAGCACCACTCCCATGCTCGCAGCTCCTCAGCTTATCCAGAGGCCCGTCATGCTGACCAAGTTACCCCC
CACAACCCCTCCACATCCAGAAATTCATCCACCCCGTCCGTGCTCAATGGGCAGACTGCAACCATAGCCAA
AACGTTCCCCATGGCCAGCTCACCAGCATTGTGATAGCTACTCCAGGGACCAGACTCGCTGGACCTCAAACCTGT
ACAGCTTAGCAAGCCAAGTCTTGAAAACAGACAGTTAAATCTCACACAGAAACAGATGAGAAACAAACAGAGAG
CCACACCATCACCCACCTGCTGCACCCAAACAAACGGGAGGAGAACCCTCAGAACTTGCTTCATGGTGTCT
TCTAGGGTTGGTAACACATGACCATCTAGAAGAAATCCAAAGCAAGAGGCAAGAGCGAAAAAGAAGAACAACAGC
AAATCCGGTCTACAGTGGAGCAGTCTTTGAGCCAGAGCGTAAGAAGAGTGCAGTGACATACCTAAACAGCACAA
GCACCCCTGGGACCCGGAAGAGAGCCAATGAGGAACACTGGCCAAAGGGTGATATTCATGAGGATTTTTCAGCGT
TTGCAGAAAAAGTGGCCAGTTACTGATGTGCGACACGTGTTCCCGTGATATCATTGGACTGCTTAGACCCCC
TCTGAAAACAATTCCCAAGGGCATGTGGATCTGTCCAGATGTCAGGACCAGATGCTGAAGAAGGAAGAAGCAAT
TCCATGGCCTGGAACCTTTAGCAATTGTTTCTTATATTCCTTACAAAGCAGCAAAAGAAGAAGAGAAACAGAA
GTTACTTAAATGGAGTTTCAATTTAAACAAGAACGAGAACTAGAGCAAAAGGTGAAACAGCTCAGCAATTC
CATAAGTAAATGCATGGAAATGAAGAACACCATCCTGGCCCGGCAGAAGGAGATGCACAGCTCCCTGGAGAAGGT
AAAACAGCTGATTCGCCTCATCCACGGCATCGACCTCTCCAAACCTGTAGACTCTGAGGCCACTGTGGGGGCCAT
CTCCAATGGCCCGGACTGCACCCCCCTGCCAATGCCGCCACCTCCACGCCGGCCCCCTCCCCCTCCTCCAGAG
CTGCACAGCGAACTGTAACCAGGGGGAAGAGACTAAATTAACAGAGCCCCCTTAGGAGAAGCCACGGGATCCCGGC
GGCAAGGAGAAACAGAACTGAAGACTCTAGAAAAGCAAAAGCCGATTTCTGGAAAGTGCAGAATTCCTTTGGTT
CTTTGGTTCCAGAGAGAGAGAAGATGCTTGTGCCAGGTGGCACCAGAGTTTGCCAATTGATCCTTCTTATTCTGT
GTGTACATGCAAAGATTGGACCATGTTACATGAAATAGTGCCAGCTGGAGGTTCTTTGCCAGCACCATGCCAAGT
GAAATAATATATTTACTCTCTCTATTATACACAGTGTGTGCCCTGCAGCAGCCTCCACAGCCACGATGGGTTTGT
TTCTGTTTTCTTGGGTGGGGAGCAGGGACGGGCGGAGGGAGGAGCAGGTTTCAGATCCTTACTTGCCGAGCCG
TTTGTTTAGGTAGAGAAGACAAGTCCAAAGAGTGTGTGGGCTTTCCTGTTTCTAAACTTTTCGCTACTATAAAACC
AAAAAAGGAATTGAGATTTACCAACCCAGTGCCCAAGAGGGAAGGGGAGTGGCTGGAGGGAGCAGGGGGT
GGGACAGTGTATCAAATAAGCAGTATTTAATCACCTCTGGCGGGGGCCTCGTGCAAGGGGAGACTGACACCAAGA
ACAGCCAGTAGGTTCTTCTCCCTGCACCTCTGCTCCCTGCGCGGTAACCCACCACTCCTGAAGCCTGCCAGTC
TCCTTCCTTCCCTGCTTGGTGAGTCGCGCATCTCCGTGTTATCCCGCTGTCTCCTCTCCAAGAACAAGCAGAGC
CCGGGCCACTGGCCCTTGCCCAAGGCAGGGAAGAAGGATGTGTGTGTCCAGGAAGGAAAAAAGGTGGATCAGTG
ATTTTACTTGAAAACAAGCTCCATCCCTTTTCTATATTTATAAGAAGAGAAGATCTTGAGTGAAGCAGCACGCGA
CCCAGGTGTGTGAATTGAATGGAGACGTTTCTTTCTTTCTTTTAAATTTTTGTTTTTGTCTTTTTTCTTT
AAGGAAAGTTTTATTTTACTGTTTCTTTTCTTTTCTTTTAAATTTTTGTTTTTGTCTTTTTTCTTT
TTCAGGCTGACAGTCCAATTAAGGGTAGCCAAGACCTGTCATGGTAGAGTAGGAATCATAGTGTGAGTGAGGTCC
CGTGAGTCTTTGTGAGTCCTTGTGTATCGTTTCGGGCACTGTTTTTTTTATGCAAGGGCAAAAATCTTTGTATCTG
GGGAAAAAAACCTTTTTTTTAAATTAATAAAGGAAAAATAAAGATATTGAGGTCTTCCTAGTGTTACTTAAATTAA

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FIGURE 683B

GATCAAGGTAAGAAACATTGTAAAAAAAATTACAAAAGTGCTATTTGTTTCCTAAAAACAGTGATTTCTATTAA
AAAGGTGTCAGAACTGG

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FIGURE 684

MELQTLQEALKVEIQVHQKLVAQMKQDPQNADLKKQLHELQAKITALSEKQKRVVEQLRKNLIVKQE QPDKFQIQ
PLPQSENKLQTAQQQPLQQLQQQQYHHHHAQQSAAASENLTA S QKT VTTASMITTKTLPLVLKAATATMPASVV
GQRPTIAMVTAINS QKAVLSTDVQNTFPVNLQTSSKVTGPGAEAVQIVAKNTVTLQVQATPPQPIKVPQFIPPPRL
TPRPNFLPQVRPKPVAQNNIPIAPAPPPMLAAPQLIQRPVMLTKFTPTTLPTSQNSIHPVRVVNGQTATI AKTFP
MAQLTSIVIATPGTRLAGPQTVQLSKPSLEKQTVKSHTETDEKQTESHTITPPAAPKPKREENPQKLAFMVS LGL
VTHDHLEEIQSKRQERKRRTTANPVYSGAVFE PERKKS AVTYL NSTMHPGTRKRANEEHWP KGD IHEDFC SVCRK
SGQLLMCDTCSR VYHLDCLDPPLKTIPKGMWICPRCQDQMLKKEEAIPWPGTLAIVHSYIAYKAAKEEEKQKLLK
WSSDLKQEREQLEQKVKQLSNSISKMEMKNTILARQKEMHSSLEKVKQLIRLIHGIDLSK PVDSEATVG AISNG
PDCTPPANAATSTPAPSPSSQSCTANCNQGEETK

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FIGURE 685

GTCCCAGCTAGAGCTCCAGCGCCCGCTCAGGCCCACTCGACCCTCTCGGGCCTCGGCTACTTGGACTGCGGCGG
AATATGGCGGCTCCGATGACTCCCGCGGCTCGGCCCGAGGACTACGAGGCGGCGCTCAATGCCGCCCTGGCTGAC
GTGCCCCAACTGGCCAGACTCCTGGAGATCGACCCGTACTTGAAGCCCTACGCCGTGGACTTCCAGCGCAGGTAT
AAGCAGTTTAGCCAAATTTTGAAGAACATTGGAGAAAATGAAGGTGGTATTGATAAGTTTTCCAGAGGCTATGAA
TCATTTGGCGTCCACAGATGTGCTGATGGTGGTTTATACTCCAAAGAATGGGCCCGGGAGCAGAAGGAGTTTTT
CTTACTGGAGATTTTAAATGGTTGGAATCCATTTTCGTACCCATACAAAAAACTGGATTATGGAAAATGGGAGCTG
TATATCCCACCAAAGCAGAATAAATCTGTACTCGTGCCTCATGGATCCAAATTAAAGGTAGTTATTACTAGTAAA
AGCGGAGAGATCTTGTATCGTATTTACCGTGGGCAAAGTATGTGGTTCGTGAAGGTGATAATGTGAATTATGAT
TGGATACACTGGGATCCAGAACACTCATATGAGTTTAAGCATTCCAGACCAAAGAAGCCACGGAGTCTAAGAATT
TATGAATCTCATGTGGGAATTTCTTCCCATGAAGGAAAAGTAGCTTCTTATAAACATTTTACATGCAATGTACTA
CCAAGAATCAAAGGCCTTGGATACAACCTGCATTTCAGTTGATGGCAATCATGGAGCATGCTTACTATGCCAGCTTT
GGTTACCAAATCACAAGCTTCTTTCAGCTTCCAGCCGTTATGGAACACCTGAAGAGCTACAAGAAGCTGGTAGAC
ACAGCTCATTCCATGGGTATCATAGTCCTCTTAGATGTGGTACACAGCCATGCTTCAAAAAATTCAGCAGATGGA
TTGAATATGTTTGATGGGACAGATTCTGTATTTTTCATTCTGGACCTAGAGGGACTCATGATCTTTGGGATAGC
AGATTGTTTGCTACTCCAGCTGGGAAGTTTTAAGATTCTTCTGTCAAACATAAGATGGTGGTTGGAAGAATAT
CGCTTTGATGGATTTCTGTTTGTATGGTGTACGTCCATGCTTTATCATCACCATGGAGTGGGTCAAGGTTTCTCA
GGTGATTACAGTGAATATTTTCGGACTACAAGTAGATGAAGATGCCTTGACTTACCTCATGTTGGCAAATCATTTG
GTTACACACGTGTGTCCCGATTCTATAACAATAGCTGAGGATGTATCAGGAATGCCAGCTCTGTGCTCTCCAATT
TCCCAGGGAGGGGGTGGTTTTGACTATCGACTAGCCATGGCAATTCCAGATAAGTGGATTTCAGCTACTTAAAGAG
TTTAAAGATGAAGACTGGAACATGGGCGATATAGTATACACGCTCACAAACAGGCGCTACCTTGAAAAGTGCATT
GCTTATGCAGAGAGCCATGATCAGGCATTGGTTGGGGATAAGTCGCTGGCATTTTGGTTGATGGATGCCGAAATG
TATACAAACATGAGTGTCTGACTCCTTTTACTCCAGTTATTGATCGTGGAATACAGCTTCATAAAATGATTCTGA
CTCATTACGCATGGGCTTGGTGGAGAAGGCTATCTCAATTTTCATGGGTAATGAATTTGGGCATCCTGAATGGTTA
GACTTCCCAAGAAAAGGAAATAATGAGAGTTACCATTATGCCAGGCGGCAGTTTCATTTAAGTACGACGACCTT
CTTCGCTACAAGTTCCTAAATAATTTTGACAGGGATATGAATAGATTGGAAGAAAGATATGGTTGGCTTGCAGCT
CCACAGGCCTACGTGAGTGAAAAACATGAAGGCAATAAGATCATTGCTTTTGAAAGAGCAGGTCTTCTTTTCATT
TTCAACTTCCATCCAAGCAAGAGCTACACTGACTACCGAGTTGGAACAGCATTGCCAGGGAAATTCAAAATTGTG
CTAGATTAGATGCAGCGGAATATGGAGGGCATCAGAGACTGGACCACAGCACTGACTTTTTTCTGAGGCTTTT
GAACATAATGGGCGTCCCTATTCTCTTTTGGTGTACATTCCAAGCAGAGTGGCCCTCATCCTTCAGAATGTGGAT
CTGCCGAATTGAAGAGGCCTGATTTTCAGCTCCACCAGATGCAGATTTGTGTTTTGTTTTCTTGTTATCACTGTCA
CACAGCTTATAACATGTATGCTTTTCAGAATACAGTTGTCTAGCCAAGCCATCAAGTGTCTGAAATTCAATATTG
GTTTATGCAAATACAGCAAACCTTTTATTTAAGTAGATAGGAGAATATGTTTAAATATTAGGAATCCTAGACCAT
ATTTTCAAGTCATCTTAGCAGCTAGGATTCTCAAATGGAAGTGTATATATAATATGTTAAAAACATTTTGCTTT
CCTGGCTAATTATTTGATCCTTTTAAATCCAAATTTGAATCATTGTGCATGTATGATTATTTCTGTTAAATGTAC
ACAGTATTTAAGATGGATATTTGGTGGCTCTATTTGTTCTGATATCTTTTGGTCTAAATTATGAGGTACCAAGAT
TGTTTCTTTGTTTCTTTTTTCAAATTGTGTTTAGAAAATACTGTAATAAATATGCAGTAGTGATATAAAGAATTA
TATCCAAGGTAATATAAAAGCCATTACGTATGAACTCATCCGTGTCTCATTTTGTGTTTTATTTTGTGATCTCTT
GTCCACTAAGTATCTTGTTAAATGCCAGTATCTCAGTCTTTCTGAAGCCCTGAAATGGTAATTGTAGCATTTCAG
AAAATGTCTTTTCATTTCAATCAATAAAAAGCTTTTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 686

MAAPMTPAARPEDYEALNAALADVPELARLLEIDPYLKPYAVDFQRRYKQFSQILKNIGENEGGIDKFSRGYES
FGVHRCADGGLYSKEWAPGAEGVFLTGD FNGWNPFSYPYKKLDYGKWELYIPPKQNKSVLVPHGSKLKVVITSKS
GEILYRISPWAKYVVREGDNVNYDWHWDPEHSYEFKHSRPKKPRSLRIYESHVGISSHEGKVASYKHFTCNVLP
RIKGLGYNCIQLMAIMEHAYYASFGYQITSFFAASSRYGTPEELQELVDTAHSMGIIVLLDVVHSHASKNSADGL
NMF DGT DSCYFHSGPRGTHDLWDSRLFAYSSWEVLRFLLSNIRWWLEEYRFDGFRFDGVTSMLYHHHGVGQGFSG
DYSEYFGLQVDEDALTYLMLANHLVHTLCPDSITIAEDVSGMPALCSPISQGGGGFDYRLAMAIPDKWIQLLKEF
KDEDWNMGDIVYTLTNRRYLEKCIAYAESHQALVGDKSLAFWLMDAEMYTNMSVLTPTPTVIDRGIQLHKMIRL
ITHGLGEGYLNFMGNEFGHPEWLDFFPRKGNNESYHYARRQFHLTDDDLLRYKFLNNFDRDMNRLEERYGWLAAP
QAYVSEKHEGNKIIAFERAGLLFIFNFHPSKSYTDYRVGTALPGKFKIVLDSDAAEYGGHQRLDHSTDFSEAFE
HNGRPYSLLVYIPSRVALILQNVDLPN

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FIGURE 687

CTCTCCTCAGCATGGACAGGGGCTTCCCCTTCGCCGCCGCCGTCGCGGCGGGCAAGTCCGCGCGCCCGGGTCCTGCG
GCCTATTGCAGTTTATGTTGCTTTTTAGTCGTCAGGGAAAGCTTCGACTGCAAAAATGGTATGTCCCACTATCAG
ACAAAGAGAAGAAAAAGATCACAAGAGAACTTGTTTCAGACCGTTTTAGCACGGAAACCTAAAATGTGCAGCTTCC
TTGAGTGGCGAGATCTGAAGATTGTTTACAAAGATATGCTAGTCTGTATTTTTGCTGTGCTATTGAGGATCAGG
ACAATGAACATAATTACCTGGAAATAATTCATCGTTATGTGGAATTACTTGACAAGTATTTCCGCGAGTGTCTGTG
AACTAGATATCATCTTTAATTTTGAGAAGGCTTATTTTATTTTGGATGAGTTTCTTTTGGGAGGGGAAGTTCAGG
AAACATCCAAGAAAAATGTCCTTAAAGCAATTGAGCAGGCTGATCTACTGCAGGAGGAGGAAGCTGAAACCCAC
GTAGTGTCTTTGAAGAAATTGGACTGACATTAACTCTCCTCCCTTGTTGATGACTTCTTGTGGCATTTCACACACT
GTAGATGGTCACTCCCTTCATTGTCCATTGTTAGCTCATGGTGTAAGATGATGTCCTTGTGTCAGTATTACTGTTTTG
CTAAGCCGCTTCATTTCATGCCCTACACAATTTTTTTTTTAAAGGGAACTTTAGTTAATTAAGTGATAAGGGACTTA
AATATGAATTAGAATGGTGCAGAAAGAGATACCTTTTCTGGATATTTTAAAGTTTAAAGGTCAGTTTCTCTTAAT
CTGATTATGTGCACATATGAAAATGGCACATCATATACATGTAAAATCAGGCAGTATACATTTATTAATTACTGT
ATTTGACAAAGGAACTCTTAAATTATAATGTGAAACCTGGTTTTATGAAACCAAAGACTAGTGCAGCATTTCAG
CATATGTAAAAAAGGGAATTGACATGTCACATATCAAAATGAATGGAACTTTGTTGAACTTTAAAAAG
CAAATTTACTCCAAAGACTTGTATTGGAATTACATACCTTTTTTTTTTTTTTAAAGGACTACAGATTATTTTT
AATGACTAAATTGGAGTGATACTTCTTACACTAAAAATTATTTCTTAGGCATTCTGAATCTGGGATGAGAAACAG
GATTGTTTCACAATAGTAAGCACATAATTTTTAAGGCCAAGGCACATTTGACTCCTGAGATGAATTTTTTGTGGT
CATAATCAAATACTTAGTTGTTTTTGATGCCCAAAATAAAGTGAGAATGGTAATTTGCCAGGAATTCTTCATAA
CAGTATCTTACAAAAACGTGTTGCTCTCTTCACAGTATTATGTGTAAAGTCATTGTTTAAAGCACGAATGTTCC
CTCTGGGGTACTTGTTAAAGCTAAATTTATTTTGCTTCCCTCCACTTAGAAGTGCTGCACACTTTACAGCAGCTT
CCTTTCTTTCCATGGCACTGCCTAGTTAACAGAAGTCTTATAAAAAATTTAAAAAGACACATTTCTTACAAAAAG
AGTTGAATGAGGTAAAATGGCATTAGATGGCTCTATATTTTTTAAAGCTATGTAATTGTTTCAGCGTCACCTTTCT
AAGTACTTATACATATCTAAACATGTCTTCAATGGTTTATATTTTCACTTATAATATGCTGGGCTGGATTAAGCT
TTGTTGTGAATTGTGACCCAACATTCAGGCCAACGTTGAGCACTGTCCTTATCACATCTCGCCACAATTAGTTGT
AATAAACCGTTCAACGTACAAACGTACAAACACTGGAGTGTGTTTTATCTCTTTCCAAAAGTTTGTCAAACAT
GCAGAGCTGCTGAAGGAAGAATTTCTCATTTTTTTTTTTCAGTAAAATGTTGAAAATTTCCCTCCATTTGAATATGG
TGGTTGTTATAAGCACACACAAGATACATGGTGGAAGATCTAAGGAGTCTTCATGTACTTCATTAAAAAATAACA
TGGATTCCATACTGAGAGCCTATCTACACATTTATTTTCAATCAATAAATGCTGCTTTTAAACCTTGAAA

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FIGURE 688

MDRGFPFAAAVAAASPRARSCGLLQFMLLFSRQGKLRRLQKWYVPLSDKEKKKITRELVQTVLARKPKMCSFLÉWR
DLKIVYKRYASLYFCCAIEDQDNELITTLEIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFLLGGEVQETSK
KNVLKAIEQADLLQEEEAETPRSVLEEIGLT

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FIGURE 689

AGCGGTTACCCGCGCTGCCTCCGGTGCCGCTGGCGACCGCTGAGCCGCTTCCCGCGCGTGCCTAGCCCGCCCT
CAGCTCGCCGCGAGCCCCGGCTCCTCCCTCGTCCGGCCCCCGGGGCGGGGTCTGTCTAGCTTGCCCTCCCCCTCTCCG
CCTAAGCCTGCCCTATGCCAGCCGGGTGTCTCCCCACAGCACCACGGCTTCTCTTCCTCAGCACGGCGACAGGG
GCTTCCCCCTTCGCCGCCGCCGCCGCCGCCGCCGCAAGCTCCGCCGCGCCCGCGGCCCGCGGCCCGCCATGCAGTTTA
TGTTGCTTTTTAGTCGTCTAGGGAAAGCTTCGACTGCAAAAATGGTATGTCCCACTATCAGACAAAGAGAAGAAAA
AGATCACAAGAGAACTTGTTTCAGACCGTTTTAGCACGGAAACCTAAAATGTGCAGCTTCCTTGAGTGGCGAGATC
TGAAGATTGTTTACAAAAGATATGCTAGTCTGTATTTTTGCTGTGCTATTGAGGATCAGGACAATGAACTAATTA
CCCTGGAAATAATTCATCGTTATGTGGAATTACTTGACAAAGTATTTCCGGCAGTGTCTGTGAAGTAGATATCATCT
TTAATTTTGAGAAAGGCTTATTTTTATTTTGGATGAGTTTCTTTTGGGAGGGGAAGTTCAGGAAACATCCAAGAAAA
ATGTCTTAAAGCAATTGAGCAGGCTGATCTACTGCAGGAGGAAGCTGAAACCCACGTAGTGTCTTGAAGAAA
TTGGACTGACATAACTCTCCTCCCTTGTTGATGACTTCTTGTGGCATTTCACACACTGTAGATGGTCACTCCCTT
CATGTCCATGTTAGCTCATGGTGTAAAGATGATGTCTTGTCTAGTATTACTGTTTTGTCTAAGCCGCTTCATTCATGC
CTACACAATTTTTTTTTTAAAGGGAACCTTAGTTAATTAAGTGATAAGGGACTTAAATATGAATTAGAATGGTGC
AGAAAGAGATACCTTTTCTGGATATTTTAAAGTTTAAAGGTCAGTTTCTCTTAATCTGATTATGTGCACATATGA
AAATGGCACATCATATACATGTAAAATCAGGCAGTATACATTTATTAATTACTGTATTTGACAAAGGAAAACCTCTT
AAATTATAATGTGAAACCTGGTTTTATGAAACCAAAGACTAGTGCAGCATTTCAGCATATGTAAAAAAAAAAAAA
AAGGGAATTGACATGTCACATATCAAATGAATGGAAAACCTTGTGAAACCTTAAAAAGCAAATTTACTCCAAAGA
CTTGATTGGAATTACATACCTTTTTTTTTTTTTTAAAGGACTACAGATTATTTTTAATGACTAAATTGGAG
TGATACTTCTTACACTAAAAATTATTTCTTAGGCATTCTGAATCTGGGATGAGAAACAGGATTGTTTCACAATAG
TAAGCACATAATTTTTAAGGCCAAGGCACATTTGACTCCTGAGATGAATTTTTTGTGGTCATAATCAAATACTTA
GTTGTTTTTGATGCCCAAATAAAGTGAGAATGGTAATTTGCCAGGAATTCTTCATAACAGTATCTTACAAAAA
ACGTGTTGCTCTCTTCACAGTATTATGTGTAAAGTCATTGTTTAAAGCACGAATGTTCCCTCTGGGGTACTTGTT
AAAGCTAAATTTATTTTGCTTCCCTCCACTTAGAAGTGCTGCACACTTTACAGCAGCTTCCTTTCTTTCCATGGC
ACTGCCTAGTTAACAGAAGTCTTATAAAAATTTAAAAAGACACATTTCTTACAAAAAGAGTTGAATGAGGTAAA
ATGGCATTAGATGGCTCTATATTTTTTAAAGCTATGTAATTGTTTCAGCGTCACTTTTCTAAGTACTTATACATAT
CTAAACATGTCTTCATGGTTTATATTTTCACTTATATATGCTGGGCTGGATTAAGCTTTGTTGTGATTGTGACCA
ACATTCAGGCCACGTGAGCACTGTCTTATCACATCGCCAATTAGTTGTAATAAACGTTCAACGTACAAACACTGG
AGTGTGTTTTTATCTCTTTCCAAAAGTTTGTCAAACATATGCAGAGCTGCTGAAGGAAGAATTTCTCATTTTTTT
TCAGTAAAATGTTGAAAATTCCCCTCCATTTGAATATGGTGGTTGTTATAAGCACACACAAGATACATGGTGGAA
GATCTAAGGAGTCTTCATGTACTTCATTAATAAATAACATGGATTCCATACTGAGAGCCTATCTACACATTTATT
TTCAATCAATAAATGCTGCTTTTAAACCTTGA

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FIGURE 690

MDRGFPFAAAVAAAASPRARSCGLLQFMLLFSRQGKLRLLQKWYVPLSDKEKKKITRELVQTVLARKPKMCSFLEWR
DLKIVYKRYASLYFCCAIEDQDNELITLEIIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFLLGGEVQETSK
KNVLKAIEQADLLQEEEAETPRSVLEEIGLT

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FIGURE 691

GGAGGCCAGTGCGCGGCCGCGGTGCTCTACCGGCGTGTGCTCCGCCCCAGGGAGAGCCGGCGCTACC**ATGG**AGG
AGTACCATCGCCACTGCGACGAGGTTGGCTTCAATGCTGAGGAAGCCCAATATTGTCAAAGAGTGTGTAGATG
GGGTTTTAGGTGGTGAAGATTATAATCACAAACATCAACCAGTGGACTGCAAGCATAGTGGAACAATCCTTAA
CACACCTGGTTAAGTTGGGAAAAGCCTATAAATATATTGTGACCTGTGCAGTGGTCCAGAAGAGCGCATATGGCT
TTCACACAGCCAGCTCCTGTTTTTGGGATACCACATCTGATGGAACCTGTACCGTAAGATGGGAGAACCGGACCA
TGAAGTGTATTGTCAACGTTTTTGGCATTGCTATTGTTCTTT**TAA**CTGACTAAAAATGTTGGGCTAAAGCCATTAA
CTTAAGAATTTGTGAGTGTATCCTTTCCAAAAAGAGTAATAGTTGTTTACTAGTGTGCTAGATGAAAAGCGTGCA
ATATGCTTTAAAGCTATCAACAAAACTGAATATTATAAGCAAGCAATATCATAGTAATTGGCAGATTAGCTCAT
ATTCTATACAGCATCGTTTTAAATAGGAAAAATTTAATGCTAGCAAAAAATAAATTTAGAATATGGCATGACATGA
AAATACAATCTTATATTTACACCAGCTTTTCTACTAATATTTTGTACCTAAGGTGATGGGGAACCTCCATTAGATA
ATAAAATTCTCTTTAGCTAGAGAAGTTAACAGGAATAAATATATGAACAAAAAGCTGCAAGGATAAATGTGGA
GAAAATGATGAGAATTAGCTAACATTTTTAAGTTTTTTTAACTTTCTTCCCCTCAGTTGTACTTAATATTTAGT
GGAAAGTAATAATTTTTTTTATTTTCTATCAACTAATAGTATAGTAACAACTATGATTAACCTTGTCTTACTTTTCT
GAGGATTAGTAAATCAATTTTTTTTAAATTTCAAATTTTGGATTACACTTGAGGGTAAATTAATCTGGTAACT
GAATTTCCCTAGTTAAATAAAATTAGTTGCAGTATATGATGAACAGTGTATGACTCAAACAGCTGCCTTACAATTC
ACTCATTCCATGTGGAACAAACATTTATCAGATGCCTATTATGGGCATATGTCTCTGCTAAGCACCATAGTTGTC
AATGTGCTGTGCAAAATGCTAAGTTCCTTTTAGCAATTGTTTCAAGTTGGAAGACGTATTAATATTTGGGGAAGGAAA
AGAAAGTAGTTGTTTTACAAGGGAGGAAAAAAGTGAATCTGGTTACACATATGGAAGTAAGCAAAATGAAAAGCA
CTTATTGCTTTCTGACAGAATTATAGATGTAATTTTAAAGAGTTGCTCCTAGCAAGTTAAAAGTGCATATAAAATA
TGCAACTCTTAGTTAAAGGCCTTATTATCAGTCTTACCTATACAAGTAGTAATTTTGTGCTTTAGTTTACA
ACCATCTGTAAATAACTTAAAAGACTTATTATGTGGGGTTCAAATTGAGTGGAATAAAGTATAGATTAAAAGTAT
ACAATCCTTAGCACGTTATCTCAGGGCTTATGAAATGTAATTAATTTTATTAAGAAAATAGATGAAAAATTAGGG
TACACAGCTGGCCACCAAATGCGAAGTCAATCTGCTACTTAACCCTGAAAACAAAATCAGTTTTGCATATTACCA
CTAACACTAATACATATAGAGAGCGGAACCATAACTCATTGAATTTTGGAGAGGAATAAGCTTAGCGTTAATATT
GACAATATTAAGGCAATATTCTTGTAGGAATACTATGTGCATGTTTGATATTTTGCCAAATAACAATAATTAATA
ATTGTTCAATGTTTAAAGAATAATATTAACAAAATAAAGGAGTTAATGCAGTGATCTTTGTTTTTGGCACATCAA
AAATTCTCAGTCATTATTTCATGTTTCTTTTATGCTGCTGGCTTTTGTGCCCTGGAAGATCATAATAGTGACCAAA
ATATACATGCAGACTTGTTTTTTTATTATTGTTGTTTAAAGCATAATTTAAGAAAAAAATTTTACCTGGTGAAC
TGCTATCTGCTCTGTTTCTAGTTAAATATAATAAATATTATCTTCCTGTGCTGTA

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FIGURE 692

MEEYHRRHCDEVGFNAEEAHNIVKECVDGVLGGEDYNHNNINQWTASIVEQSLTHLVKLGKAYKYIVTCAVVQKSA
YGFHTASSCFWDTTSDGTCTVRWENRTMNCIVNVFAIAIVL

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FIGURE 693A

CTTTCCCGAGTCCGTTTGAGGAAGTCCCCGAGGCGCACAGAGCAAGCCCACGCGAGGGGCACCTCTGGAGGGGAGC
GCCTGCAGGACCTTGTAAAGTCAAAAATGTTCAGAACTTCCAGGACCGCCTTTGGAGGCAGAAGAGCAGTTCCAC
CCAATAACTCTAATGCAGCGGAAGATGACCTGCCCACAGTGGAGCTTCAGGGCGTGGTGCCCCGGGGCGTCAACC
TGCAAGAGTTTCTTAATGTCACGAGCGTTCACCTGTTCAAGGAGAGATGGGACACTAACAAGGTGGACCACCACA
CTGACAAGTATGAAAACAACAAGCTGATTGTCCGCAGAGGGCAGTCTTTCTATGTGCAGATTGACCTCAGTCGTC
CATATGACCCCAGAAGGGATCTCTTCAGGGTGAATACGTCATTGGTTCGCTACCCACAGGAGAACAAGGGAACCT
ACATCCCACTGTCCTATAGTCTCAGAGTTACAAAGTGGAAGTGGGGGGCCAAGATTGTCTATGAGAGAGGACAGGT
CTGTGCGGCTGTCCATCCAGTCTTCCCCCAAATGTATTGTGGGGAAATTCCGCATGTATGTTGCTGTCTGGACTC
CCTATGGCGTACTTTCGAACCAGTCGAAACCCAGAAACAGACACGTACATTCTCTTCAATCCTTGGTGTGAAGATG
ATGCTGTGTATCTGGACAATGAGAAAGAAAGAGAAGAGTATGTCCTGAATGACATCGGGGTAAATTTTTTATGGAG
AGGTCAATGACATCAAGACCAGAAGCTGGAGCTATGGTCAGTTTGAAGATGGCATCCTGGACACTTGCCTGTATG
TGATGGACAGAGCACAAATGGACCTCTCTGGAAGAGGGAAATCCCATCAAAGTCAGCCGTGTGGGGTCTGCAATGG
TGAATGCCAAAGATGACGAAGGTGTCTCGTTGGATCCTGGGACAATATCTATGCCTATGGCGTCCCCCATCGG
CCTGGACTGGAAGCGTTGACATTCTATTGGAATACCGGAGCTCTGAGAATCCAGTCCGGTATGGCCAATGCTGGG
TTTTTGCTGGTGTCTTTAACACATTTTTACGATGCCTTGGAAATACCAGCAAGAATTGTTACCAATTATTTCTCTG
CCCATGATAATGATGCCAATTTGCAAATGGACATCTTCTGGAAGAAGATGGGAACGTGAATTCCAAACTCACCA
AGGATTCAGTGTGGAATACCCTGCTGGAATGAAGCATGGATGACAAGGCCTGACCTTCTGTTGGATTGGAG
GCTGGCAAGCTGTGGACAGCACCCCCCAGGAAAATAGCGATGGCATGTATCGGTGTGGCCCCGCTCGGTTCAAG
CCATCAAGCACGGCCATGCTGCTTCCAATTTGATGCACCTTTTGTTTTTGCAGAGGTCAACAGCGACCTCATT
ACATTACAGCTAAGAAAGATGGCACTCATGTGGTGGAAAATGTGGATGCCACCCACATTGGGAAATTAATTGTGA
CCAAACAAATTTGGAGGAGATGGCATGTATGGATATTACTGATACCTTACAAATTCGAAGAAGGTCAAGAAGAAGAGA
GATTGGCCCTAGAACTGCCCTGATGTACGGAGCTAAAAAGCCCCTCAACACAGAAGGTGTCTATGAAATCAAGGT
CCAACGTTGACATGGACTTTGAAGTGGAAAATGCTGTGCTGGGAAAAGACTTCAAGCTCTCCATCACCTTCCGGA
ACAACAGCCACAACCGTTACACCATCACAGCTTATCTCTCAGCCAACATCACCTTCTACACCGGGGTCCCGAAGG
CAGAGTTCAAGAAGGAGACGTTTCGACGTGACGCTGGAGCCCTTGTCCTTCAAGAAAGAGGCGGTGCTGATCCAAG
CCGGCGAGTACATGGGTTCAGCTGCTGGAACAAGCGTCCCTGCACCTTCTTGTACAGCTCGCATCAATGAGACCA
GGGATGTTCTGGCCAAGCAAAAGTCCACCGTGCTAACCATCCCTGAGATCATCATCAAGGTCCGTGGCACTCAGG
TAGTTGGTCTGACATGACTGTGACAGTTAGTTTACCAATCCTTTAAAAGAAACCTTGCGAATGTCTGGGTAC
ACCTGGATGGTCTGGAGTAACAAGACCAATGAAGAAGATGTTCCGTGAAATCCGGCCCAACTCCACCGTGCAGT
GGGAAGAAGTGTGCCGGCCCTGGGTCTCTGGGCATCGGAAGCTGATAGCCAGCATGAGCAGTGACTCCCTGAGAC
ATGTGTATGGCGAGCTGGACGTGCAGATTCAAAGACGACCTTCCATGTGAATGCACAGGAAGCTGAGATGAACCC
TGGCATTGTGGCTCTTGTAGTCTTGGCTAAGGAAATTCTAACGCAAAAATAGCTCTTGCTTTGACTTAGGTGTGA
AGACCCAGACAGGACTGCAGAGGGCCCCAGAGTGGAGATCCCATATTTCAAAAACATACTTTTCCAAACCCAG
GCTATTCCGGCAAGGAAGTTAGTTTTTAATCTCTCCACCTTCCAAAGAGTGCTAAGCATTAGCTTTAATTAAGCTC
TCATAGCTCATAAGAGTAACAGTCATCATTTATCATCACAAATGGCTACATCTCCAAATATCAGTGGGCTCTCTT
ACCAGGGAGATTTGCTCAATACCTGGCCTCATTTAAAACAAGACTTCAGATTCCTCCACTCAGCCTTTTGGGAATA
ATAGCACATGATTTGGGCTCTAGAATTCAGTCCCCTTTCTCGGGGTGAGGTTCTACCTCCATGTGAGAATATT
TTTCCCAGGACTAGAGCACAAACATAATTTTTATTTTTGGCAAAGCCAGAAAAAGATCTTTTCAATTTTGCACCTGCA
GCCAAGCAAAATGCCTGCCAAATTTTAGATTTACCTTGTTAGAAGAGGTGGCCCCATATTAACAAATTGCATTTGT
GGGAAACTTAACCACCTACAAGGAGATAAGAAAGCAGGTGCAACACTCAAGTCTATTGAATAATGTAGTTTTGTG
ATGCATTTTATAGAATGTGTACACTGTGGCCTGATCAGCAGGAGCCAATATCCCTTACTTTAACCTTTCTGGG
ATGCAATACTAGGAAGTAAAGTGAAGAATTTATCTCTTTAGTTAGTGATTATATTTACCCATCTCTCAGGAATC
ATCTCCTTTGCAGAATGATGCAGGTTTCAGGTCCCCTTTTCAGAGATATAATAAGCCCAACAAGTTGAAGAAGCTGG
CGGATCTAGTGACCAGATATATAGAAGGACTGCAGCCACTGATTCTCTTGTCTTTCACATCACCATTTTGAGA
CCTCAGCTTGGCACTCAGGTGCTGAAGGGTAATATGGACTCAGCCTTGCAATAGCCAGTGCTAGTTCTGACCCA
ACCACAGAGGATGCTGACATCATTTGTATTATGTTCCAAGGCTACTACAGAGAAGGCTGCCTGCTATGTATTTGC
AAGGCTGATTTATGGTCAGAATTTCCCTCTGATATGTCTAGGGTGTGATTTAGGTGAGTAGACTGTGATTCTTAG
CAAAAAATGAACAGTGATAAGTATACTGGGGCAAAATCAGAATGGAATGCTCTGGTCTATATAACCACATTTCT

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FIGURE 693B

GAGCCTTTGAGACTGTTCCCTGAGCCTTCAGCACTAACCTATGAGGGTGAGCTGGTCCCCTCTATATATACATCAT
ACTTAACTTTACTAAGTAATCTCACAGCATTGCGCAAGTCTCCCAATATCCAATTTTAAAATGAAATGCATTTTG
CTAGACAGTTAAACTGGCTTAACTTAGTATATTATTATTAAATTACAATGTAATAGAAGCTTAAATAAAGTTAA
CTGATTAT

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FIGURE 694

MSETSRTAFGGRRVPPNNSNAAEDDLPTVELQGVVPRGVNLQEF LNVTISVHLEFKERWD TNKVDHHTDKYENNKL
IVRRGQSFYVQIDLSRPYDPRRDLFRVEYVIGRYPQENKGTIIPVPIVSELQSGKWGAKIVMREDRSVRLSIQSS
PKCIVGKFRMYVAVWTPYGVLRTSRNPETDTYILFNPWCEDDAVYLDNEKEREYVLNDIGVIFYGEVNDIKTRS
WSYGQFEDGILDTCLYVMDRAQMDLSGRGNPIKVS RVGSAMVNAKDDEGVLVGSWDNIYAYGVPPSAWTGSVDIL
LEYRSENPFVRYGQCWVFAGVFNTFLRCLGIPARIVTNYFSAHDNDANLQMDIFLEEDGNVNSKLTKDSVWNYHC
WNEAWMTRPDLPVGFGGWQAVDSTPQENS DGM YRCGPASVQA IKGHVCFQFDAPFVFAEVNSDLIYITAKKDGT
HVVENVDATHIGKLIVTKQIGGDGMMDITDTYKFQEGQEEERLAL ETALMYGAKKPLNTEGVMKSR SNVDMDFEV
ENAVLGKDFKLSITFRNNSHNRYTITAYLSANITFYTGVPKAEFKKETFDVTLEPLSFKKEAVLIQAGEYMGQLL
EQASLHFFVTARINETRDVLAKQKSTVLT IPEII IKVRGTQVVGS DMTVTVQFTNPLKETLRNVVHLDGPGVTR
PMKKMFREIRPNSTVQWEEVCRPWVSGHRKLIASMSDSL RHVYGELDVQIQRRPSM

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FIGURE 695

GCCCCGCTGCGGTAAATGGGGCAGAGGCCGGGAGGGGTGGGGGTTCCCCGCGCCGCAGCCATGGAGCAGCTTCGCG
CCGCCGCCCCGTCTGCAGATTGTTCTGGGCCACCTCGGCCGCCCCCTCGGCCGGGGCTGTCTGTAGCTCATCCCACTT
CAGGGACTATTTCTCTGCCAGTTTCCATCCTCAACAATTCCAGTATACTCTGGATAATAATGTTCTAACCCCTGG
AACAGAGAAAATTTTATGAAGAAAATGGGTTTCTAGTAATCAAAAATCTTGTACCTGATGCCGATATTCAACGCT
TTCGGAATGAGTTTGAAAAATCTGCAGAAAGGAGGTGAAACCATTAGGATTAACAGTAATGAGAGATGTGACCA
TTTCGAAATCCGAATATGCTCCAAGTGAGAAGATGATCACGAAGGTCCAGGATTTCCAGGAAGATAAGGAGCTCT
TCAGATACTGCACTCTCCCCGAGATTCTGAAATATGTGGAGTGCTTCACTGGACCTAATATTATGGCCATGCACA
CAATGTTGATAAAACAAACCTCCAGATTCTGGCAAGAAGACGTCCCGTCACCCCCTGCACCAGGACCTGCACTATT
TCCCCTTCAGGCCCAGCGATCTCATCGTTTGCGCCTGGACGGCGATGGAGCACATCAGCCGGAACAACGGCTGTC
TGGTTGTGCTCCCAGGCACACACAAGGGCTCCCTGAAGCCCCACGATTACCCCAAGTGGGAGGGGGGAGTTAACA
AAATGTTCCACGGGATCCAGGACTACGAGGAAAACAAGGCCCGGGTGCACCTGGTGATGGAGAAGGGCGACACTG
TTTTCTTCCATCCTTTGCTCATCCACGGATCTGGTCAGAATAAAACCCAGGGATTCCGGAAGGCAATTTCTGCTC
ATTTGCGCCAGTGCCGATTGCCACTACATTGACGTGAAGGGCACCAGTCAAGAAAACATCGAGAAGGAAGTTGTAG
GAATAGCACATAAAATTTCTTTGGAGCTGAAAATAGCGTGAACTTGAAGGATATTTGGATGTTTCGAGCTCGACTTG
TGAAAGGAGAAAAGAACCAATCTTTTGAAATAGCCATCTGCTATAACTCTTTCAACAGAAAACCAAAACCAAACGAA
ATGTCTAAGGAAAATGTTTTCTTAATGAGATGATGTAACCTTTTCTATCACTTGTTAAAAGCAGAAAACATGTAT
CAGGTACTTAATTGCATAGAGTTAGTTTTGCAGCACAAATGGTGTTGCTTTAATGGAAAAAAAACAGTAAAAAGT
GAAATATTACTGTTTTAAGGAAAACATAATTTAGGGTGGCAGCCAATAAAGGTGGTTGGTGTCTAATTTAAGTGTT
AAATCAATTTCTTTCATTAGTTAGCTCTTTACCCAAGAAGAAGTGAATGATTTGGAGCTTAGGGTATGTTTTGT
ATCCCCCTTCTGATAAACCCATTCCCTACCAATTTTATGTCATAAGAGATTTTTTTCCCCCAAATCTAGAACAAT
GTATAATACATTCACATCTAGTCAAGGGCATAGGAACGGTGTCATGGAGTCCAAATAAAGTGGATATTCCTGCTC
GG

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FIGURE 696

MEQLRAAARLQIVLGHLGRPSAGAVVAHPTSGTISSASFHPQQFQYTLDNNVLTLEQRKFYEENGFLVIKNLVPD
ADIQRFRNEFEKICRKEVKPLGLTVMRDVTISKSEYAPSEKMITKVQDFQEDKELFRYCTLPEILKYVECFTGPN
IMAMHTMLINKPPDSGKKT SRHPLHQDLHYFFFRPSDLIVCAWTAMEHISRNNGLVVLPGTHKGSLKPHDYPKW
EGGVNKMFGIQDYEENKARVHLVMEKGD TVFFHPLLIHGSGQNKTQGFRKAISCHFASADCHYIDVKGTSQENI
EKEVVGIAHKFFGAENSVNLKDIWMFRARLVKGERTNL

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FIGURE 697

GCGGACGTGGGCAGGAGGGCTGGAAAAGCCGGCGCTGGAGCGGGAACGGGAGTAGCTGCCTGGGCGCCAAAGGCC
GCGGCACTCCCACGCGGACCCCGAAGTCCGCAACCCGGGGATGGGCCCCGCGGCTGCGAGGGGATCTTCTCTGGAT
CAAGCAATGGTGGTGAAAAATGTTTCGCAAGGGCAAAAAACGACACAGTAGTAGCAGTTCCCAAAGTAGCGAAAT
CAGTACTAAGAGCAAGTCTGTGGATTCTAGCCTTGGGGGTCTTTCACGATCCAGCACTGTGGCCAGCCTCGACAC
AGATTCCACCAAAAAGCTCAGGACAAAGCAACAATAATTCAGATACCTGTGCAGAATTTTGAATAAAATATGTTGG
TGCCATTGAGAACTGAAACTCTCCGAGGGAAAAGGCCTTGAAGGGCCATTAGACCTGATAAATTATATAGACGT
TGCCAGCAAGATGGAAAGTTGCCTTTTGTTCCTCCGGAGGAAGAATTTATTATGGGAGTTTCCAAGTATGGCAT
AAAAGTATCAACATCAGATCAATATGATGTTTTGACAGGCATGCTCTCTACTTAATAATCCGGATGGTGTGTTA
CGATGACGGTCTGGGGGCGGGAAAAAGCTTACTGGCTCTGAAGACCACAGATGCAAGCAATGAGGAATACAGCCT
GTGGGTTTATCAGTGCAACAGCCTGGAACAAGCACAAAGCCATTTGCAAGGTTTTATCCACCGCTTTTGA CTCTGT
ATTAACATCTGAGAAAACCCTGAAATCCTGCAATCAAGTAGAAGTCAACTTCATCTGAAAGTTCAGCTGTTTTCAA
CTGCAATGCTGAAATGTTATGCAAATAATGAAGTTATCCCTTGCTCTAGATTTTCTGAAGAAAATGGATTGTGTA
AAATGCTGATCATTTGTTTATTAAAATGTGTCTTATTACACAGTGAGTTAACTCTCAATGAAGTCATCTATTTTC
TGGGCTAAAAAACTTCATTTGTCTTTTTCAACTTCTAATAAGCTTAACTTAAGTGTACGAAGACGAGATGTCAC
AGAGGTCCACTCAGTGACAAACACACACTGAAGGCCTGAGGGAAGACTGAGGACATGGGCTCAGTGGTGGCTTCC
CAGTCATGGTATCACTGGCATGGACCTCTGTCCGGCAGAGGTGTGGACTGGAGACCAGGATTCATGCTGGTCTGG
AACAATGACATTGCCAACTTAAGACACACAAAGCAGATTTTCAGAAGTGTCTGGTCAAGATAACATGCTGGCCAA
CCACAATTCCTAGAGTTAAGAGAACCTTAAAAGATTACCGCTCATGCTAAAAGTATGTAAAGATCCCATGTACAG
TATGATAGTGTA CTTTTTTTTAAAGGACTGTCAATATACAAAACTTTAAAGATTAAAAACATTAAAAATAAAAAA

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FIGURE 698

MFRKGKKRHSSSSSSQSSEISTKSKSVDSSLGGLSRSSSTVASLDTDSTKSSGQSNNNSDTCAEFRIKYVGAIEKLK
LSEGKGLEGLDLINYIDVAQQDGKLPFVPPEEEFIMGVSKYGIKVSTSDQYDVLHRHALYLIIRMVCYDDGLGA
GKSLLALKTTDASNEEYSLWVYQCNSLEQAQAICKVLSTAFDSVLTSEKP

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FIGURE 699A

GGCACGGGGACATCAGGATATCCTGAGTGTGTCTGCAGATGGTGGCATCGTGATGGGCTATTCTAGTGGCGTCAC
CAATGGGCTGAATGATGCCAGCGACTCCATCTACACGAAAGGCACCCCGGAGATTGCTTTCTGGGGAAGCAATGC
TGGGGTGAAAACAACACGGCTAGAAAGCTCATTCTGAAATGGGGAGCACTGAAATTTTGAAAAGGAGACCCCA
AAATCTCAGTAATGGTACCAGCAGCAATGTGGAAGCAGCCAAAAGGTTGGCCAAACGCCTTTATCAGCTGGACAG
ATTCAAAGATCAGATGTTGCAAAACACCTTGGCAAGAACAACGAATTTAGCAAAGTAGTTGCAGAAGAATATCT
GAAGTTTTTTGATTTTACAGGAATGACGCTGGATCAGTCACTCAGGTATTTCTTTAAAGCATTCTCTCTGTGGG
AGAACTCAAGAACGAGAGAGAGTTTTAATACACTTCTCCAATAGATATTTTTATTGTAACCCAGATACCATTC
TTCACAAGATGGAGTCCATTGCCCTTACCTGTGCAATAATGCTTCTTAATACCGATCTACATGGCCACGTGAATAT
TGGAAAGAAGATGACCTGTCAGGAGTTCATTGCAAATCTGCAAGGGGTAAATGAGGGTGTTGATTTCTCCAAGGA
TCTGCTGAAAGCTCTGTACAACCTCAATCAAGAATGAGAAGCTTGAATGGGCAGTAGATGATGAAGAGAAAAA
GTCTCCCTCAGAAAGTACTGAGGAGAAAGCTAACGGAACACATCCAAAGACCATCAGTCGTATTGGAAGTACTAC
TAACCCATTTTGGACATTCTCATGATCCAAATGCTGCTGTGTACAAAAGTGGATTCTTGGCTCGGAAAAATTCA
TGCAGATATGGATGGAAAGAAGACTCCAAGAGGAAAACGAGGATGGAAAACCTTTTATGCTGTACTGAAGGGAAC
AGTTCTTTACTTGCAAAAGGATGAATACAAGCCAGAAAAGGCCCTTGTCTGAAGAGGACTTGAAAAACGCTGTGAG
TGTGCACCACGCATTGGCATCCAAGGCCACGGACTATGAGAAGAAACCAAACGTGTTTAAACTTAAACTGCCGA
CTGGAGGGTCTTGCTTTTTCAAACCTCAGAGCCCAGAGGAAATGCAAGGGTGGATAAAACAAATCAATTGTGTGGC
AGCTGTATTTTCTGCACCACCATTTCAGCAGCAATCGGCTCTCAGAAGAAGTTTAGCCGCCACTTCTGCCTGC
CACTACAACAAAACCTGTCTCAGGAGGAGCAACTGAAGTCACATGAAAGTAAGCTGAAGCAGATCACCACCGAGCT
GGCCGAGCACCGCTCATATCCCCCGACAAGAAGGTCAAAGCCAAGGACGTCGATGAGTACAAACTGAAAGACCA
CTATCTGGAGTTTGAGAAAACCCGCTATGAAATGTATGTCAGCATTCTCAAGGAAGGAGGCAAAGAGCTACTGAG
TAACGATGAAAGCGAGGCTGCAGGACTGAAGAAGTCGCACTCGAGTCCTTCGCTGAACCCGGATACTTCTCCAAT
CACTGCCAAAGTCAAGCGTAACGTGTGAGAGAGGAAGGATCACCGACCTGAAACACCAAGCATTAAAGCAAAAAGT
TACTTAGAGTCCATCTGCGGCCAGGAAGTGCTGGTCATGGAGCAAAATAGGGTTTTTCAAGATCTTTCTGGTAAT
CCGTGAATATATTTAAAAAAGTCTGTGACAAAACGGTGCATTAGTAATTTTTTCTATTGTATATTTTG
TTAGTTTCTGTACAGATTGTCTTTGCTCTTGATTCTTTTGCTTTGATGATTTTTGCAACTTGATAGCTAATGCA
CCTTTTCTGTGAGGAGGAGGGGATCGTGATTTGAGAAATGAATTATGTATCCCTTCTCTTTGGTTTTCTCTGT
TGCAGTCTGCTCAGTTGTTTTATGTATTCTCATATCAACTGTTAACTTTTTTTAAAGGTTAAAGAATTTAATCC
ATTGTGAAACACTTAACTGGACAACTGTAGTTTTAGTAAATCTAGCTGGAGTTAATATACGCCTTTATATGTG
AAATCTTGCCAGTCACAGAGGTAGAATTGAGCACTCACAGATGCTCCAGTAAGAATCACAGTGTGGGAATCTA
GTTGCTCCAATATGAGGCAGCTTCATGTGCAGCTTAGCACTGTTGTTGAGATCGGACCCTGCTGGAAGCAGGGA
AAAGAAGCGTGAAGATCGTAGGATTGAGAACTTAGGGAAGCACATTAGCTTGCTTGAAGTGCTGATTCCATTCA
GCCAAGCAAGGGAAAGAGGAAGTGGAGTCATTTTGCTTTGAAGGCTGAGGAAAGATTGATACCCAGTTAATTTT
GTTTGCTAAAGGATGGGGGCAATAATCGGCCCTTGAGGAGCTGCAGCAGTAGGCATGTGCTCAGTCTGCAGGAAT
TGTTACCTCACTCCACAGGGTCTAGACTAGAAATCCATCATCTCTATCGTTGATATCCTTCCATCCAGGAATAG
ATTTTTCTTACTCTACATATGTGTGTGTGCGTGCGTGTGTGGGCATGGGGTGTGTCTCTGGTTGT
GATATTGAGGTCTTCCTTCCCTAACAAATTAATACTAAAAATGAAACAGCTTTTCTTGTGTCTTAAAGACAAAATAA
GGAAGGAAAACGTAGCTGCAGTTGTCCACGATGGATATTGGTTCTTTAAATATATCTGAAAGTAGTAGTCAGAA
TGAATTATGGTTGGAAAACCTGAGGAATCTTCTGGTTGCAGGTGCAAAGTGACTTTGTTTATTCTTGTCTCAGTCT
CCTTGATAGCCACTTCACCTGCTACTACTCAACTTTCTCCTAAAAATACTTCATCTATTTTTCAGTCCCTTTCTTT
CTGTCTACTCAAAAATGGTTCTATTAACTTTGCAGTCATGAGCTTGTTCCAGTTACAGTCCCTTTGAAGTTCAGGG
TGATAAACAGAATATTTCTTCTGTAGAGGAAGAGAAAGGAGTGAAAGTTTAGCCCACTGAGACCTAGAGCTTTGTG
ATTTCTTAACCTTGAAACTCTGTAATCCCTAAAGTTAAATCTCCGCAAGTGGCACAACCTTCAGAACTAATAGTA
TCACCTTGATTTTCTTTTTTCTCCCTTAGAAAGTTTCTCTAGTTCTATAGTTTATTTGTTGAAGGTACTATGAC
CAAAGAATCAGCTGCTCTACAGGAATAGCATGGTTCCAGTGAATTAGAGAAAACCTGCTGTAAAGCCATGGTAGT
GTCTAAGTGGTATGTTATTATGATGTACTAGCATTTATTTACAGAATTATTTATTAACGTTTACTTCCTTCCCCT
CTGTAAATGTCCATGACTATTGCCAGAGAAGGCTTACCCCTCTCTAGGGTGCAGTTGCTTTCTTTGTAATAAG
TATTTTGCCACACCTGTAAAAAAGAACTCACTTTTAACTCTCTGCCTTGTTTGGGTAAAGGCAGTAACTAA
GTTTATGTTTCAGAACTGCAAAACAAACAGGATAGTTACCAATATGGCCCATGTGTGAGATTGATTTTTGTAGCC

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FIGURE 699B

TCTCACTGAATCCAACATATCCACAAGCAAGTTATCTGTCTTTCTACCTGATAATCTAAATTATCAGGATATTTG
TTTTCTGCCTAAATGTTTATACTAAGCCGAGGGGAGAGAGGTACCTAGACCATGTCTATCTACGAGCTTCAGTAAC
TAAAGAAAAAGGAACCTCCCTGAGTGGCTTGAATGTGTTTGCCACAGTCTATATCTATGTATATAGAATGTCTG
TATGTATTTTACTTATTTAATATACATTGAATGGTACCTTGCTACAGTATTTCTGACATTTAGAGTAGTGTGAA
ATACTCGGCTAGCATCAGCACCCTATAGCACTGTCCGTGTCATATGAGTCACTAATATTAAGTCCAGGGACTTC
TGGATAGGCTAATAGATCATTGGATACGAAGGGCTCTTTTGAAGCTTCAGTATACCATGTTTGCATAGTTTATCT
TTAAAAACAACCTTTAAAGGTTCTTTTGTGAGCCAGGATCTCAGACTGCCGTAGCATGATGCTGTCCATCTTTAGC
GCATGGGCTGAGAACACCTCTTCCCTGAGGCTTCTGAAGGTTGCTGTCTGTCATGAGTGCATGAAGGAGGCCAAG
AGTTTATGCTATGGGAGGAACCAGTCACTGATTTGCCTAGATTCTGAGAGTCTGGCCCATAGCCAACACATTTT
CCTTTGGGATAATTTATTTCTGTGGCATCTAGCCAGAAGAAATTGAGGATGTTTCTTTTACAGCTGCTCCAAG
CCTGTTGCCCAATTCACGGTACAAGGGAGCACCCCTTCCCTTTCTCTGAAGGTACGCCACCCACCTCCGTCGCC
CACCTCAGCGCCCAGGAGCCTTGGGACTTCCTTCCATATGATAAATCATTCTTCTTACGTCAATACACTTCATA
TTAATTTCTAGTACAGAAAATCTTGACAGCTATCAGAATGCCTTGGTCATAGTGTGTTGTGCAAAATTGACCATAC
AGGTGGCCCATGTATAAAATCTGAATTTTAGGGGTTTGTCCCCACCTCGCATGCTGGCTTTTACAGGGAGGTGTC
TGGGATTCTTCATTAGCAATCAAACTTAATTACTGGGATGCAGAGTCCTTACTTTATCGCCAGCCCGTAGGCAT
TTCTGAAGTGCACCTTTTTTGAACATCATTTTGTCTAACTCTCAGCAGTGTCTAATTAACTGAGCAATACCTTTG
TGAATTTTAAATTAATCTCAGCAAAACCATGATGGGAGAGAGTCCTCTGATGGAAATGTAGTCCCTGGATTATGTG
TAACCTTTTTTATTGCTCTTAGATGCAGAGGATAGAAAAGCATTTTTTGGTGCAGTGGTCTTGTGGCAAAACACAAGA
CCCTCTATGCGTCTCCAACGTATCTTAATCTAGAAAATGAGGACTGGCCCTGGGCAAAAGTGACATGAGGAA
TTTACTCTGGAAGAGGAAAATCTGGGTGGCTTTCCAAGGCTAAGATAGGTTTGTATTTACCCCTGTGGCCAAGCT
ACAGAACCTTCTGAGATTGTGGAAGAATTTTTGCAACCAGCAGGGAAAGAGGCCTCTTACTGCCTAAACACAAAGT
TACACTGAGCTTTTCTACTGTCCTTTGCCTATTGCTCCCTCTATCATGTAAAGATCTGGGAAGGATGAGAGGCAG
GGCCTGCTTGTCTAGAGCTGCACTCTTTTCTTTTAACTAATCATTGACAATTGGAAGAAAATTGACGTTAAAGA
AGTTTCTCCATTGTCTTACTAACAAAACCTTTTGGGTTTCATTAATTGTCCTTGAAATTGAGTTCCTTTGGCATT
TTTCTTGCAGTCATCAGTTAAGCATGTTGCATCCTGAATTCACAGAAGTTTAGCTTTGCAGGTTTGAATCTCTG
TAATTTAACTCCCGTGGACTTGGTCGAGTTTTCAGCAGGTTGGGAGCCACCTCTCTTCAATTCAGCAGTGAGTCA
TCCCTTGACTTTTCAAATGACAGAATTTTTTCCAATTGTAAATTAGCACTGTAAAACAAAGAACCAAGTGGCA
TCCTAAGAGTTGTTAAACCTGAAGTCTAGTTTATGAGGAATTGTCCAAGTTGGAGTTTAAATAGTATCTGCTTTT
GTCTCAAAGCATCTAAGTTATTCTGACAGAAAATGGTAAGTCAGCTTTCAGGCAGATGCGCCTCTGGGCCTCCT
ACCTTGCTCCACAGCTTCTGGCCATCTTGTCTCCAGGCCATGCCACTGCTCTGCCACATGTCAGCAAAATTTCT
TTCCACCAGTCTTATAGCATCTTACATGATCAAATCATCACAGAATAACCCCGTGATAGATTATTGATAGCAATA
GAGAGGGGCGGCTTTGTCACTGATTTTTCTCTCAGATTCCCTTTTCCATCTCTCATCCATAAAGGAAGGACTGAAA
TCCAAAGGCATTCTCCTTTTGTACCTACAGTATCCAGAACCACGTGGGCAGCCTTCTGCTTATGACAATAATTG
GCCCATTGCATGCAGAGAGAATGTCTTCATAGAGAGAATGTCATTAAATACTTGAATCTGCATGACAGTTTGACT
TGAATGCAACAGCAGGAAAATTTTGAAGTTACATAATTGTATATACAGTAGGTTTTCTTAAGTCTCTTCGGTTC
ATCCTTTGTAAATTTGTGTGTATCTGTAGTATTGCAGGCTTTTGGAGACTATTCTTACAGGCAGTATGTCAGTC
ATCAAAGAAAAATGCTGTACCTGCCATTGTTGTATTTGTGGGTATTTATAGTTGTATGTATGTAAATGCATCAGT
GTGTAGATTGCATATCAGTGTATGGTACATGTACATCAAAATTAATTTTTGTCTTAATCAGTGTGATATGAAAAG
CAAGTACAACCTCATAGGACTGATTATATAATGAAGTTGTTGAGAGTATATATAGTGGTATTGTTTTATTAACT
TAAACTCAAAATAATTTTTGATTAAATTTTTTAATAAGACTTTATGCTAGAAAATTTCTTTGAGCTTTGAATCACC
AGGGCAAAAATGACTTTCAACTAACCTTGTGAATCTTTTGCAGTGTACTGTGTGCAATACCAAGGGCATAGCTCC
CTGTAATTTGGGAAATACAGAAAGAAAAGAAAAA

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FIGURE 700

MGYSSGVTNGLNDASDSIYTKGTPEIAFWGSNAGVKTTRLEAHSEMGS TEILEKETPENLSNGTSSNVEAAKRLA
KRLYQLDRFKRSDVAKHLGKNNEFSKLVAEEYLKFFDFTGMTLDQSLRYFFKAFSLVGETQERERVLIHFSNRYF
YCNPD TIASQDGVHCLTCAIMLLNTDLHGHVNIGKKMTCQEFIANLQGVNEGVD FSKDLLKALYNSIKNEKLEWA
VDDEEKKKSPSESTE EKANGTHPKTISRIGSTTNPF LDIPHDPNAAVYKSGFLARKIHADMDGKKTPRGKRGWKT
FYAVLKGT VLYLQKDEYKPEKALSEEDLKNAVSVH HALASKATDYEEKPNVFKLKTADWRVLLFQTQSPEEMQGW
INKINCVA AVFSAPPPFAAIGSQKKFSRPLL PATTTKLSQEEQLKSHESKLKQITTELAEHRSYPPDKKVKADV
DEYKLKDHYLEFEKTRYEMYVSILKEGGKELLSNDESEAAGLKKSHSSPSLNPD TSPITAKVKRNVSERKDH RPE
TPSIKQKVT

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FIGURE 701

GTGGCCGCGCAGGAGGACGGAGCCCTAACCGCAACCCGCGCCGCGCCGCGCCGATTGATTGTATCCACTGTCA
CCAGCACTGCTCACTTAGGACTTTCTGGATCCAGACCCAGGCAGCGCACACTGGACTCTTGAGGAAGAAGGAGAC
TCTAATTTTGGATTCCCTGGTGGAGGAAAATAAAACACTCTGGTCTTGCCGCCAACGATGCAAGTGTGACTGCTG
GCGTCTTC**ATG**AGCTCCAGAGGTCACAGCACGCTACCAAGGACTCTCATGGCCCCCTCGGATGATTTCCGAGGGAG
ACATAGGAGGCATTGCTCAAATCACCTCCTCTCTATTCTGGGCAGAGGCAGTGTGGCCTCCAATCGGCACCTCC
TCCAGGCTCGTGGCATCACCTGCATTGTTAATGCTACCATTGAGATCCCTAATTTCAACTGGCCCCAATTTGAGT
ATGTTAAAGTGCCTCTGGCTGACATGCCGCATGCCCCATTGGACTGTACTTTGACACCGTGGCTGACAAGATCC
ACAGTGTGAGCAGGAAGCACGGGGCCACCTTGGTGCCTGTGCTGCAGGGGTGAGCCGCTCAGCCACGCTGTGTA
TCGCGTACCTGATGAAATTCACAAACGTGTGCCTGCTGGAGGCATACAACCTGGGTGAAAGCCCGGCACCTGTCA
TCAGGCCCCAACGTAGGCTTCTGGAGGCACTGATAGACTACGAGCGCCAGCTCTTTGGGAAGTCGACAGTTAAAA
TGGTACAGACACCTTATGGCATAGTTCCCGACGTCTATGAGAAGGAGTCCCGACACCTGATGCCTTACTGGGGGA
TT**TAG**TGCCACTGAAGCCTGCGTCAGCAGCCGAGCGGGGCCGGCATCTGCTCCCCGCCGTCTGCTCCCTCTCCA
CTCTCTTCTCAAATGGCTGACTTCTGGTTCTCCCTCAAGTGTTTTTACACTGGGTGTTCAAATTTATTTAAGA
GATAGGGAGGGAGGGGACATAAAGGGAATGCATACATTGCTAGTCACATTTTTTAAATTAACATTTTGGAATAGT
GTTTATGGAATCTTTAGCTTTTAATCATTTTTTACCAATTTGAACAGTTTAATAAACTGGTTCTGCTCTCTTCTG
AATCTCATGCCTTTGGCACCTTGGTAGGTGCAGGAGGAGCTCAGTGCAAAAATCACTTTGGGGCCTCATTAACCC
TTTAGAGACAAGCTTTGCCCCAGGCTGCGGACCAGACAGATGCTTAGGGAAGGTTGATACCAGCTTCAGTCTCTA
CTGGATTAGCCCTACTCTTTCCTTTCCCTCCATTATTTAGTGACTCTGTAAGTAAGTTAAATACACCCTTATTA
TTTAGCTGTTAAGTAACATAATGAAATCTGCTGCAAAATCTCTCTTGGAATCCATGTGCCCAGGATTATATTAG
CATTATTTTAAATAAATCTATATGCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 702

MSSRGHSTLPRTLMAPRMISEGDIGGIAQITSSLFLGRGSVASNRHLLQARGITCIVNATIEIPNFNWPQFEYVK
VPLADMPHAPIGLYFDTVADKIHSVSRKHGATLVHCAAGVSRSATLCIAYLMKFHNVCLLLEAYNWKARRPVIRP
NVGFWRQLIDYERQLFGKSTVKMVQTPYGIVPDVYEKESRHLMPYWGI

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FIGURE 703

CTGGTGACTCGCGGCGGCGGCGGCGGACGGCCCCAGCCGGAGCGCGAGGGGGCTCGGGGGGGCGCGGCGGGTTCTGGGT
CGCAGAGCCAGGGACCCAGGACCCGGGAGGCGGCGCAGCCGGGGCCCGCGGAGGAGCGCGGGTGACCTGGCGGC
GGCGAGATGCCGCTCGCCCAGCTCAAGGAGCCCTGGCCGCTCATGGAGCTAGTGCCGCTGGACCCGGAGAATGGA
CAGACCTCAGGGGAAGAAGCTGGACTTCAGCCGTCCAAGGATGAGGGCGTCCTCAAGGAGATCTCCATCACGCAC
CACGTCAAGGCTGGCTCTGAGAAGGCTGATCCATCCCATTTCGAGCTCCTCAAGGTTCTGGGCCAGGGATCCTTT
GGCAAAGTCTTCCTGGTGCGGAAAGTCACCCGGCCTGACAGTGGGCACCTGTATGCTATGAAGGTGCTGAAGAAG
GCAACGCTGAAAGTACGTGACCGCTCCGGACCAAGATGGAGAGAGACATCCTGGCTGATGTAAATCACCCATTC
GTGGTGAAGCTGCACTATGCCTTCCAGACCGAGGGCAAGCTCTATCTCATTCTGGACTTCTGCGTGGTGGGGAC
CTCTTCACCCGGCTCTCAAAGAGGTGATGTTACGGAGGAGGATGTGAAGTTTTACCTGGCCGAGCTGGCTCTG
GGCCTGGATCACCTGCACAGCCTGGGTATCATTTACAGAGACCTCAAGCCTGAGAACATCCTTCTGGATGAGGAG
GGCCACATCAAACCTCACTGACTTTGGCCTGAGCAAAGAGGCCATTGACCACGAGAAGAAGGCCTATTCTTTCTGC
GGGACAGTGGAGTACATGGCCCCTGAGGTGCTCAACCGCCAGGGCCACTCCCATAGTGCAGGACTGGTGGTCTTAT
GGGGTGTGATGTTTGAGATGCTGACGGGCTCCCTGCCCTTCCAGGGGAAGGACCGGAAGGAGACCATGACACTG
ATTCTGAAGGCGAAGCTAGGCATGCCCCAGTTTCTGAGCACTGAAGCCAGAGCCTCTTGCGGGCCCTGTTCAAG
CGGAATCCTGCCAACCGGCTCGGCTCCGGCCCTGATGGGGCAGAGGAAATCAAGCGGCATGTCTTCTACTCCACC
ATTGACTGGAATAAGCTATACCGTCGTGAGATCAAGCCACCCTTCAAGCCAGCAGTGGCTCAGCCTGATGACACC
TTCTACTTTGACACCGAGTTCAGTCCCGCACACCCAAAGGATTCCCCAGGCATCCCCCCCAGCGCTGGGGCCCAT
CAGCTGTTCCGGGGCTTCAGCTTCGTGGCCACCGGCCTGATGGAAGACGACGGCAAGCCTCGTGCCCCGCAGGCA
CCCCTGCACTCGGTGGTACAGCAACTCCATGGGAAGAACTGGTTTTTGTGACGGCTACGTGGTAAAGGAGACA
ATTGGTGTGGGCTCCTACTCTGAGTGCAAGCGCTGTGTCCACAAGGCCACCAACATGGAGTATGCTGTCAAGGTC
ATTGATAAGAGCAAGCGGGATCCTTCAGAAGAGATTGAGATTCTTCTGCGGTATGGCCAGCACCCCCAACATCATC
ACTCTGAAAGATGTGTATGATGATGGCAAACACGTGTACCTGGTGACAGAGCTGATGCGGGGTGGGGAGCTGCTG
GACAAGATCCTGCGGCAGAAGTTCTTCTCAGAGCGGGAGGCCAGCTTTGTCTGACACACCATTTGGCAAACTGTG
GAGTATCTGCACTCACAGGGGGTTGTGCACAGGGACCTGAAGCCCAGCAACATCCTGTATGTGGACGAGTCCGGG
AATCCCGAGTGCCTGCGCATCTGTGACTTTGGTTTTGCCAAACAGCTGCGGGCTGAGAATGGGCTCCTCATGACA
CCTTGCTACACAGCCAACCTTTGTGGCGCCTGAGGTGCTGAAGCGCCAGGGCTACGATGAAGGCTGCGACATCTGG
AGCCTGGGCATTCTGCTGTACACCATGCTGGCAGGATATACTCCATTTGCCAACGGTCCCAGTGACACACCAGAG
GAAATCCTAACCCGGATCGGCAGTGGGAAGTTTACCCTCAGTGGGGGAAATTGGAACACAGTTTCAGAGACAGCC
AAGGACCTGGTGTCCAAGATGCTACACGTGGATCCCCACCAGCGCCTCACAGCTAAGCAGGTTCTGCAGCATCCA
TGGGTACCCAGAAAGACAAGCTTCCCCAAAGCCAGCTGTCCCACCAGGACCTACAGCTTGTGAAGGGAGCCATG
GCTGCCACGTACTCCGCACTCAACAGCTCCAAGCCCCACCCCCAGCTGAAGCCCATCGAGTCATCCATCCTGGCC
CAGCGGCGAGTGAGGAAGTTGCCATCCACCACCCTGTGAGGGCACCAGGGCATTCTGGGCCACAGGGCGGTGCTAGC
TTGACAGAGTCAGCATGCTTCCCAGAGGGAGCAGGCCGGAACACAGGGCCAGAGGGAGCTGGAACCCGAGGGGC
CGGGGAAGCTGCCAGCCCAGAACCCCCCTAATGAGGGTGTGAGAAGTGCCTTCTCCTTCCCAGGATGGACTCTT
CTCGGCTCAGGCTCTGCTGGTGGAAAGCGATTCACTGTATAAACTTTTTTTTATGAAAAAATGGCATCAACCAC
CATGGATTTTTACAAGATCCATTTGCCTTTCTGGGAGCAGAAAACAGCCATTGCGGCCCCAGGAGGGGAACTGAGT
CACGCTGGGGCTCTCTGAGACTCTTTAGAGCAGCTTTGGGATCCCACCCTGGGGACCCCCATGATTGGCCACCTG
TAGCCATCTGCACACACCTCCGAGACAGTCCAGTGTACCTCTCTCAGAGCATCTGGCTGTTTAGCAGAACTCAT
TCTATCCCCAATCAGCTCCTTTTTCCGTTCTGTTCTGCTGGGAGTTCTAGAACCACTTCCTGCTACAGGAGGGGTC
TCATGTCTCTGCTGGCTTCCAGCTTCCAGGCACCAGCATCCACCTTGGCTCTGCCAGTGGATCCCCTGCGGTCAGGC
TGGGCAGCCCCAGAGAGAGGATGTGGAAAGCACTTTTTGGCTGACTTCATCTGGGGTTGGCAACAGGACAGAGTT
CACAGGAGGCCAGTGGGCGGGCCATGAGGGACAGGGTCTTTTTTCATTTCTTCTCAGCTGGTTACTCAGGGTTC
ATCTGTCCATGGCCTTTCTAATAAACTGTTGAGTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 704

MPLAQLKEPWPLMELVPLDPENGQTSGEEAGLQPSKDEGVLKEISITHHVKAGSEKADPSHFELLKVLGQGSFGK
VFLVRKVTRPDSGHLYAMKVLKKATLKVRDRVRTKMERDILADVNHFPFVVKLHYAFQTEGKLYLILDFLRGGDLF
TRLSKEVMFTEEDVKFYLAELALGLDHLHSLGIIYRDLKPENILLDEEGHIKLTDFGLSKEAIDHEKKAYSFCGT
VEYMAPEVVNRQGHSHSADWWSYGVLMFEMLTGSLPFQGKDRKETMTLILKAKLGMPQFLSTEAQSLLRALFKRN
PANRLGSGPDGAEEIKRHVFYSTIDWNKLYRREIKPPFKPAVAQPDDTFYFDTEFTSRTPKDSPGIPPSAGAHQL
FRGFSFVATGLMEDDGKPRAPQAPLHSVQQQLHGKNLVFSDGYVVKETIGVGSYSECKRCVHKATNMEYAVKVID
KSKRDPSEEIEILLRYGQHPNIIITLKD VYDDGKHVYLVTELMRGGELLDKILRQKFFSEREASFVLHTIGKTVEY
LHSQGVVHRDLKPSNILYVDESGNPECLRICDFGFAKQLRAENGLLMTPCYTANFVAPEVLKRQGYDEGCDIWSL
GILLYTMLAGYTPFANGPSDTPEEILTRIGSGKFTLSGGNWNVTSETAKDLVSKMLHVDPHQRLTAKQVLQHPWV
TQKDKLPQSLSHQDLQLVKGAMAATYSALNSSKPTPQLKPIESSILAQRRVRKLPSTTL

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FIGURE 705

GCGTGGAGGTCGACGACTCCGTCGCAGACTACGGACCTGTCTGGGTCTCAGCCGCCAAAAGACCCCGTCCGGTAGG
TGAGTGGCTCACTTTGAGGGCAAGCCTTCTCGGATCGAGGCTTCTTCATGGCCGCTCAGATCGTGAGCGGCCGGG
GCTGCTCTCTTTGCGGAGGATGGCGTCTAATGAGCGCAGTTGATTCGAGGAAGTACTAGCCGGACATCATGAGTG
GCTGTCGGGTATTTCATCGGGAGACTAAATCCAGCGGCCAGGGAGAAGGACGTGGAAAGATTCTTCAAGGGATATG
GACGGATAAGAGATATTGATCTGAAAAGAGGCTTTGGTTTTGTGGAATTTGAGGATCCAAGGGATGCAGATGATG
CTGTGTATGAGCTTGATGGAAAAGAACTCTGTAGTGAAAGGGTTACTATTGAACATGCTAGGGCTCGGTCACGAG
GTGGAAGAGGTAGAGGACGATACTCTGACCGTTTTAGTAGTCGCAGACCTCGAAATGATAGACGGTATGTGAAGG
GTGGATGGCTGCATTTGAACAATTATTGTAGGGGTAGCATTAAAGATTTCAGGAGTCATTAGCAGTGATGATTTTGG
GACCTGCCGTATAATCTGTTCTTCTATTCCCACGTTAGCCAATTGTTCTTGATGAATCTATATGAGTCATAGAAC
ACAAATCTATTGACGGAAGTCATTAGAATGGCTTGTGATATCTGATGGCTTGAACTTGCCACAGTTGAACACAA
GTGCTGTCATTGCATTTCTTCCATTGTGAATACGAATTTTCTTCTCAGAAATGCTCCACCTGTAAGAACAGAAA
ATCGTCTTATAGTTGAGAATTTATCCTCAAGAGTCAGCTGGCAGGATCTCAAAGATTTTCATGAGACAAGCTGGGG
AAGTAACGTTTGCGGATGCACACCGACCTAAATTAAATGAAGGGGTGGTTGAGTTTGCCTCTTATGGTGACTTAA
AGAATGCTATTGAAAAAATTTCTGGAAGGAAATAAATGGGAGAAAAATAAAATTAATTGAAGGCAGCAAAAGGC
ACAGGTCAAGAAGCAGGTCTCGATCCCGGACCAGAAGTTCCTCTAGGTCTCGTAGCCGATCCCGTTCCCGTAGTC
GCAAATCTTACAGCCGGTCAAGAAGCAGGAGCAGGAGCCGGAGCCGGAGCAAGTCCCGTTCTGTTAGTAGGTCTC
CCGTGCCTGAGAAGAGCCAGAAACGTGGTTCTTCAAGTAGATCTAAGTCTCCAGCATCTGTGGATCGCCAGAGGT
CCCGGTCCCGATCAAGGTCCAGATCAGTTGACAGTGGCAATTAAGTCTAAATAACTTGCCCTGGGGGCCTTTTT
TTTTAAAAACAAAAACCACAAAAATCCCAAACCATACTTGCTAAAAATTTCTGGTAAGTATGTGCTTTTTCTGTG
GGGGTGGGATTTGGAAGGGGGTGGGTTGGGCTGGATATCTTTGTAGATGTGGACCACCAAGGGGTGGTTGAAA
ACTAATTGTATTAAATGTCTTTTGATAAGCCTTCTGCTCACATTTTTGTGAATGTCTGAAGTATATAGTTTGTGT
ATATTGACAGAGCTCTTTTATACTAAAGCAAATTTAATTTTTTTGTACTAGAAAAAATTTGAACATTTTAGTT
CTTGTTTATAAAAAATGTTAATTCAGAATTAGTTTAATGCCTTAATTAACTAATTAATAGCTTTGGACACTTAAA
AGAGCTCTAAATTTGCTTGACATAAAGGCTTAATTTGTTTTCTTGTAGGGTCAAGGGTGTCTTCCACTCTTT
AACAGCTGCTGGACAGACACATTAGAGCAGCTGTTTGTATTGATAATAAAATATTATAAACTA

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FIGURE 706

MSGCRVFIGRLNPAAREKDVERFFKGYGRIRDIDLKRGFGFVEFEDPRDADDAVYELDGKELCSERV TIEHARAR
SRGGRGRGRYSDRFSSRRPRNDRRYVKGGWLH

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FIGURE 707

CGCAGCGGAGGTGAAGGACGTCCTTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGATGAAGGTTCTGTGG
GCTGCGTTGCTGGTTCACATTCTTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCC
GAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAAGTGGCACTGGGTTCGCTTTTGGGATTACCTG
CGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCCAGGTCACCCAGGAAGTGAAGGCG
CTGATGGACGAGACCATGAAGGAGTTGAAGGCCACAAATCGGAAGTGGAGGAACAAGTACCCCGGTGGCGGAG
GAGACGCGGGCACGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTGTGC
GGCCGCCTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCGCCTC
GCCTCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTAC
CAGGCCGGGGCCCGCAGGGCGCCGAGCGCGGCCTCAGCGCCATCCGCGAGCGCCTGGGGCCCTGGTGGAAACAG
GGCCGCGTGCGGGCCGCCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCAGGCCTGGGGCGAG
CGGCTGCGCGCGCGGATGGAGGAGATGGGCAGCCGGACCCGCGACCGCCTGGACGAGGTGAAGGAGCAGGTGGCG
GAGGTGCGCGCCAAGCTGGAGGAGCAGGCCAGCAGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAG
AGCTGGTTCGAGCCCCCTGGTGGAAAGACATGCAGCGCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTG
GGCACCAGCGCCGCCCTGTGCCCAGCGACAATCAGTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACC
CCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGGAGACCCTGTCCCCGCCCCAGCCGTCCTCCTGGGGTGGACCC
TAGTTTAAATAAAGATTACCAAGTTTCACGC

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FIGURE 708

MKVLWAALLVTFLAGCQAKVEQAVETEPEPELQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVT
QELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEE
LRVRLASHLRKLRKRLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGS LAGQPLQERA
QAWGERLRARMEEMGSRTDRDLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWEPLVEDMQRQWAGLVEK
VQAAVGTS AAPVPSDNH

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FIGURE 709A

ATGGCTCACCTAAAGCGACTAGTAAAATTACACATTAAAAGACATTACCATAAAAAGTTCTGGAAGCTTGGTGCA
GTAATTTTTTTCTTTATAATAGTTTTGGTTTTAATGCAAAGAGAAGTAAGTGTTCAATATTCCAAAGAGGAATCA
AGGATGGAAAGGAACATGAAAAACAAAAACAAGATGTTGGATTTAATGCTAGAAGCTGTAAACAATATTAAGGAT
GCCATGCCAAAAATGCAAATAGGAGCACCTGTCAGGCAAAACATTGATGCTGGTGAGAGACCTTGTTCGCAAGGA
TATTATACAGCAGCAGAATTGAAGCCTGTCCTTGACCGTCCACCTCAGGATTCAAATGCACCTGGTGCTTCTGGT
AAAGCATTCAAGACAACCAATTTAAGTGTTGAAGAGCAAAAGGAAAAGGAACGTGGGGAAGCTAAACACTGCTTT
AATGCTTTTCGCAAGTGACAGGATTTCTTTGCACCGAGATCTTGGACCAGACACTCGACCTCCTGAATGTATTGAA
CAAAAATTTAAGCGCTGCCCTCCCCTGCCACCACCAGTGTCATAATAGTTTTTCATAATGAAGCGTGGTCCACG
TTGCTTAGAACTGTCCACAGTGTGCTCTATTCTTCACCTGCAATACTGCTGAAGGAAATCATTTTGGTGGATGAT
GCTAGTGTAGATGAGTACTTACATGATAAACTAGATGAATATGTAAAACAATTTTCTATAGTAAAAATAGTCAGA
CAAAGAGAAAGAAAAGGTCTGATCACGCTCGGTTGCTAGGAGCAACAGTCGCAACAGCTGAAACGCTCACATTT
TTAGATGCTCACTGTGAGTGTTTTCTAIGGTTGGCTAGAACCCTCTGTTGGCCAGAATAGCTGAGAACTACACGGCT
GTCGTAAGTCCAGATATTGCATCCATAGATCTGAACACGTTTGAATTCACAAACCTTCTCCTTATGGAAGTAAC
CATAACCGTGGAATTTTGGACTGGAGTCTTTTCAATTTGGCTGGGAGTCGCTTCCTGATCATGAGAAGCAAAGAAGG
AAAGATGAAACCTACCCAATTTAAACACCCACTTTTGCAGGAGGACTTTTTTCCATATCAAAAGAATATTTTGAG
TATATTGGAAGCTATGATGAAGAAATGGAATCTGGGGAGGTGAAAATATAGAAATGTCTTTCAGAGTATGGCAA
TGTGGTGGGCAGTTGGAGATTATGCCTTGCTCTGTTGTTGGACATGTTTTTCGCAGCAAAAGCCCTCATAGCTTT
CCAAAAGGCACTCAGGTGATTGCTAGAAACCAAGTTCGCCTTGCAAGTCTGGATGGATGAATACAAGGAAATA
TTTTATAGGAGAAATACAGATGCAGCAAAAATTGTTAAACAAAAAGCATTGTTGGTGATCTTTCAAAAAGATTGAA
ATAAAACACCGTCTTCGGTGTA AAAAATTTTACATGGTATCTGAACAACATTTATCCAGAGGTGTATGTGCCAGAC
CTTAATCCTGTTATATCTGGATACATTAAAGCGTTGGTCAGCCTCTATGTCTGGATGTTGGAGAAAACAATCAA
GGAGGCAAACCATTAATTATGTATACATGTCTGACTTTGGGGGAAACCAGTACTTTGAATACTCTGCTCAACAT
GAAATTCGGCACAACATCCAGAAGGAATTATGTCTTCATGCTGCTCAAGGTCTCGTTCAGCTGAAGGCATGTACC
TACAAAGGTCACAAGACAGTTGTCACTGGAGAGCAGATATGGGAGATCCAGAAGGATCAACTTCTATACAATCCA
TTCTTAAAAATGTGCCTTTCAGCAAATGGAGAGCATCCAAGTTAGTGTCATGCAACCCATCAGATCCACTCCAA
AAATGGATACTTAGCCAAAATGATTAAGTGTTCCCTTAAATTAAGTTGAAAAAGGAAATATTCTTTCTCATAAAA
CTGTGACTAGGCATACACTGTAGTTTTTGGAAATTATGCAAAAGCAGCTAAATGTAACCTATTCCAAGTGCATTT
TTCTTATTTATATCTTTATGTAGCACTACTACAGAAATCTGCAAGTTTTCTGTTTCAAAGCACAATACTAGTAA
TACCAAAGACTATTTCAAATGTCCAGATGTAGGGGAAGAGATGTTTACAGTATGATGAAAATAATTTTCCAAGT
AAAGTGATGTTTGTGTGTTTTGTACACTTAGGGATATATATATATAGCTACATTCACACACTCACAATTTAAAT
ATTTCCCTAGTTTTTTGGGGGGATAGGAAGAAAGATTTGTTACTGTATTTTTTTAACTACATAAAAAATAGATCA
ATAAATGTCAGCATTGGCCTCTGTGTACAAACCAAGAGCTTTTACAGATCCAGAATTTATTAGTTTTAAATGCAG
GTGAACTTTTTTTTGCGTTTGGTTTTACTTGTCTGTCAAATGTTTCTTAAACATGAACTGAATAAGGAGAAGAG
TATTTTTTAACACTTAAATTTCTTGGCAAATTTTAAACATTTTTTTAGTCTGTAATACACTCCACTTGAAGCACTT
AAGTCTTCCTTAAATGACTTTTCTTAAAGTAATGATACTGTGTGTTTTCCCAAAGCACTTTTAAAAAATTTTTAT
AAATTACTATCTGTTGAAAAGGTGTCCTTTTCTTTCTTCTAGTATTTTTTTTTCTTACCAAATTCACTAATCTT
GAATGTTTGTGATATTAAATTTCAAATGCAGAATACTTGACTCATTTAAAGCTAAATTTTGTACTGATTCAATT
ATAATTGTAATGGATTTTTGACTTTGTAATGGATTCTTTTCATCAAAAAGCCTTATTATTTTTTATCTATGTGGA
AAACACAATAAAAAATCCTCAACACTATTGTAATCATTTGGTTAAGTGCTTATTCCTCTTTTGGGTAAAAATCTGT
AATTGATAATAGGTGGGGGAAATGAATTTTGTATGCTGAATTTCTAAGCGCCTATTGTTTGTAAAACCATCAGA
TATTTCTTATGGCACA AAAAATGAGGAATAGCAAAATTCCTGTGTTCAATATTTAGAAAATTTTGTATTAATTC
TGATAAAGTTCCTTAAGCATCTGATAGAATGATGTTTTAAAAAATTTGACGCTTGCTTAGGAGATTTACCACTT
TTTTTTTTTGTTTTTCGTCATTTTATATTTAGATCTCCTGTATTCTTGTTCCTGAAGTAAAATACGATCGGTTTC
ATATTTTAAATCTGGCAGAGCCTCAGCTGTACGAAAAGAGCATATACTGGTTATTGACCCTATCTTCTCATTGT
TTGTTTGTAAAGTTTGAATTTGTATTA AAAAGCCTGCATTCTGAGCTGGACATGGTGGCTCAGCTTCTAATCCCAG
CACTTTGGTAGGCAAAGGTGGGAGGATCATTGAGCTCAGGAGTTCCAGACCAGCCTGGGCAACATAGCAAAATC
TCATCTCTACAAAAGTAAAAATTA AAAAATGAAATTA AAAAATAAAATTACCTAGGTGTGGTGGCACGCATCTGT
AGTTCCAGCTATACAGGAAGGTGAGGCAGAAGCATTGCTTGAGCTTGGGAGATCGAGGCTACAGTGAGCTATGAT

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FIGURE 709B

TACACCACTGCACTTCAGTCTGTGTGACTGAGCAAGACTCTTTCAAAAAAAAAAAAAAGCCTACATTCTCCAGTT
GATTATTTCCAACATAATGTGTATTATGTGCCTAATTTCTATCAGAAGTTGTATTAAGCCCGTTTTCACACTGCT
GTTAAAGACATACCTGAGACTGGGTAATTTATAAAGAAAAATAGGTTCAATGGACCCACAGGTCCGCGTGGCTGG
GGAAGCTTCACAATCATGGCGGAAGGTGAAAGCATGTCTTACGTGGAAG

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FIGURE 710

MAHLKRLVKLHIKRHYHKKFWKLGAVIFFFIIVLVLMQREVSVQYSKEESRMERNMKNKNKMLDLMLEAVNNIKD
AMPKMQIGAPVRQNI DAGERPCLQGYTAAELKPVLDRPPQDSNAPGASGKAFKTTNLSVEEQKEKERGEAKHCF
NAFASDRISLHRDLGPDTRPPECIEQKFKRCPLPTTSVIVFHNEAWSTLLRTVHSVLYSSPAILLKEIILVDD
ASVDEYLDHDKLDEYVKQFSIVKIVRQRERKGLITARLLGATVATAETLTFLDAHCECFYGWLEPLLARIAENYTA
VVSPDIASIDLNTFEFNKPSPYGSNNHNRGNFDWSLSFGWESLPDHEKQRRKDETYPIKTPTFAGGLFSISKEYFE
YIGSYDEEMEIWGGENIEMSFRVWQCGGQLEIMPCSVVGHVFRSKSPHSFPKGTQVIARNQVRLAEVWMDEYKEI
FYRRNTDAAKIVKQKAFGDLSKRFEIKHRLRCKNFTWYLNNIYPEVYVPDLNPVISGYIKSVGQPLCLDVGENNQ
GGKPLIMYTCHGLGGNQYFEYSAQHEIRHNIQKELCLHAAQGLVQLKACTYKGHKT VVTGEQIWEIQKDQLLYNP
FLKMCLSANGEHPSLVSCNPSDPLQKWILSQND